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State & Schools Actuarial Valuation

As of June 30, 2008

Establishing Required Contributions

for the Fiscal Year

July 1, 2009 through June 30, 2010

CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM

**State & Schools
Actuarial Valuation
as of June 30, 2008**

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Actuarial Certification

To the best of our knowledge, this report is complete and accurate and contains sufficient information to fully and fairly disclose the funded condition of the CalPERS' State and Schools plans. This valuation is based on the member and financial data as of June 30, 2008, provided by the various CalPERS databases, and the benefit plans as outlined in Appendix B. It is our opinion that the valuation has been performed in accordance with generally accepted actuarial principles, in accordance with standards of practice prescribed by the Actuarial Standards Board, and that the assumptions and methods are internally consistent and reasonable for these plans, as prescribed by the CalPERS Board of Administration according to provisions set forth in the California Public Employees' Retirement Law.

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HIGHLIGHTS AND EXECUTIVE SUMMARY

- PURPOSE OF THE REPORT
- EMPLOYER REQUIRED CONTRIBUTIONS
- RECENT PATTERN OF RETIREMENTS
- HISTORY OF THE EXPECTED CONTRIBUTION REQUIREMENTS
- FUNDED STATUS OF THE PLANS
- CHANGES SINCE THE PRIOR VALUATION
- SUBSEQUENT EVENTS

Purpose of the Report

This actuarial valuation of the State and Schools plans of the California Public Employees' Retirement System (CalPERS) was performed by CalPERS' staff actuaries using data as of June 30, 2008 in order to:

- set forth the actuarial assets and funding liabilities of these plans as of June 30, 2008;
- establish the actuarially required contribution rates of these plans for the fiscal year July 1, 2009 through June 30, 2010;
- provide actuarial information as of June 30, 2008 to the CalPERS Board of Administration and other interested parties; and
- provide pension information as of June 30, 2008 to be used in financial reports subject to Governmental Accounting Standards Board Statement Number 27.

Use of this report for other purposes may be inappropriate. Numbers in this report may not add up due to rounding.

Employer Required Contribution Rates

The actuarially required employer contribution rates for the fiscal year July 1, 2009 through June 30, 2010 are shown below. For comparison purposes, the corresponding contributions for fiscal year July 1, 2008 through June 30, 2009 are also provided. The expected contribution amounts these rates are/were expected to generate are also shown.

	2008-2009 Fiscal Year		2009-2010 Fiscal Year	
	Expected Employer Contribution	Required Employer Rate	Expected Employer Contribution	Required Employer Rate
State Miscellaneous Tier 1	\$1,507,108,202	16.574%	\$1,659,842,332	16.917%
State Miscellaneous Tier 2	71,899,425	16.470%	71,927,813	16.737%
State Industrial	75,904,718	17.236%	89,971,498	17.251%
State Safety	281,762,944	18.411%	346,351,430	18.099%
State Peace Officers & Firefighters	891,422,825	26.064%	927,608,857	25.848%
California Highway Patrol	197,083,258	32.149%	191,870,528	28.438%
Subtotal State	\$3,025,181,372		\$3,287,572,458	
Schools	966,316,743	9.428%	1,081,377,863	9.709%
Total	\$3,991,498,115		\$4,368,950,321	

The supporting exhibits in this report entitled “Reconciliation of Employer Contribution Rates” on page 36 and “Reconciliation of Employer Contributions” on page 38 provide explanations of the changes in required contribution rates and expected contribution amounts from the 2008-2009 fiscal year to the 2009-2010 fiscal year.

A history of the required contribution rates is included on page 40 of this report.

The contribution rates presented in this report reflect the -5.1% return experienced by CalPERS in fiscal year 2007-2008. As a result of the rate smoothing methods adopted by the Board, the impact of this negative return is being greatly mitigated. Some rates are going up and some are going down. Contribution rates for all plans are changing by less than 0.4% of payroll with the exception of California Highway Patrol which is lower by almost 4% of payroll as a result of a reduction in benefit that was bargained for and adopted by the passage of AB 2936 (2005-2006 Legislative Sessions).

Overall, the required contributions for the State plans have increased by \$262.4 million between fiscal year 2008-2009 and fiscal year 2009-2010. The main reason for this increase is the growth in payroll for all State plans between the June 30, 2007 valuation and the June 30, 2008 valuation.

This growth in payroll was a combination of pay increases granted to existing employees as well as the growth in the number of active employees.

The plans with the largest growth in their active membership were the State Industrial and Safety plans. For these plans the active membership grew by 13% and 9.2% respectively. Overall, the total active population for the State grew by 3.5%.

Pay increases granted to existing employees are a normal part of every employee’s career. The actuarial valuations performed by CalPERS actuaries contain assumptions regarding salary increases. Actuarial losses occur when the salary increases granted to an individual are greater than anticipated by the actuarial assumptions. Similarly, actuarial gains occur when the salary increases are smaller than anticipated by the actuarial assumptions. For the State Plans our assumptions indicate an expected average salary increase between 4.2% and 5.5%.

The total payroll for all State plans increased by 9.1% over the prior year. This is substantially greater than the payroll growth assumption of 3.25% used in our actuarial valuation. The plan that saw the greatest increase in total payroll was the State Safety plan. The projected payroll for the State Safety plan for fiscal year 2009-2010 is 25% greater than the projected payroll for fiscal year 2008-2009.

Below are three tables indicating overall active membership growth by Plan, average salary increases by Plan and the resultant overall payroll growth of the State Plans.

Active Membership Growth in FY 2007-2008

	Number of Active Members on June 30, 2007	Number of Active Members on June 30, 2008	Increase (%)
State Miscellaneous	155,795	158,482	1.7%
State Industrial	8,859	10,010	13.0%
State Safety	22,852	24,961	9.2%
State Police Officers & Firefighters	44,864	47,140	5.1%
California Highway Patrol	6,926	7,027	1.5%
Total State	239,296	247,620	3.5%

**Average Salary Growth in FY 2007-2008
For Members Actively Employed on June 30, 2007 and 2008**

	Average Salary on June 30, 2007	Actual Average Salary on June 30, 2008	Actual Salary Increase
State Miscellaneous	\$58,078	\$62,286	7.2%
State Industrial	\$46,419	\$49,635	6.9%
State Safety	\$63,372	\$72,106	13.8%
State Police Officers & Firefighters	\$71,444	\$74,062	3.7%
California Highway Patrol	\$82,689	\$91,321	10.4%

Growth in the Projected Payroll

	Projected Payroll for 2008-2009	Projected Payroll for 2009-2010	Increase (%)
State Miscellaneous	\$9,529,563,494	\$10,241,256,666	7.5%
State Industrial	\$440,392,201	\$521,553,130	18.4%
State Safety	\$1,530,400,086	\$1,913,633,845	25.0%
State Police Officers & Firefighters	\$3,420,181,521	\$3,588,760,580	4.9%
California Highway Patrol	\$613,031,231	\$674,693,670	10.1%
Total State	\$15,533,568,534	\$16,939,897,891	9.1%

Even though the main reason for the change in contribution was the growth in payroll, other events affected the overall contribution. The reasons for the changes in employer contributions for the State between fiscal year 2008-2009 and fiscal year 2009-2010 are as follows:

<u>Reason for Change</u>	<u>Change in Required Contribution (millions)</u>
Increase due to growth in payroll and normal progression of existing amortization bases	\$199.9
First installment of the 30 year amortization of the following actuarial gains and losses: <ul style="list-style-type: none"> <li>• Greater than expected payroll and salary increases in fiscal year 2007-2008 <li>• Greater than expected number of retirements in fiscal year 2007-2008 <li>• Greater than expected contributions received in fiscal year 2007-2008 (higher than expected payroll) <li>• Combined impact of the -5.1% investment return in fiscal year 2007-2008 and previously unrecognized investment gains due to smoothing <li>• Fewer deaths than expected on Retirees in fiscal year 2007-2008 <li>• AB 2936 Removal of EPMC for CHP <li>• Other Gains and Losses 	59.0 44.8 (23.5) (9.5) 15.6 (27.0) 3.1
Total Change in Required Contributions	\$262.4

The required contributions for the Schools pool are also increasing. Overall, the required contributions for the Schools pool have increased by \$115.1 million between fiscal year 2008-2009 and fiscal year 2009-2010. The reasons for the changes in employer contributions for the Schools pool between fiscal year 2007-2008 and fiscal year 2008-2009 are as follows:

Schools Pool

<u>Reason for Change</u>	<u>Change in Required Contribution (millions)</u>
Increase due to growth in payroll and normal progression of existing amortization bases	\$71.9
First installment of the 30 year amortization of the following actuarial gains and losses:	
<ul style="list-style-type: none"> • Greater than expected salary increases in fiscal year 2007-2008 • Combined impact of the -5.1% investment return in fiscal year 2007-2008 and previously unrecognized investment gains due to smoothing • Greater than expected contributions received in fiscal year 2007-2008 (higher than expected payroll) • Fewer deaths than expected on Retirees in fiscal year 2007-2008 • Other gains and losses 	52.1 (4.5) (7.6) 4.4 (1.2)
Total Change in required contributions	\$115.1

Recent Pattern of Retirements

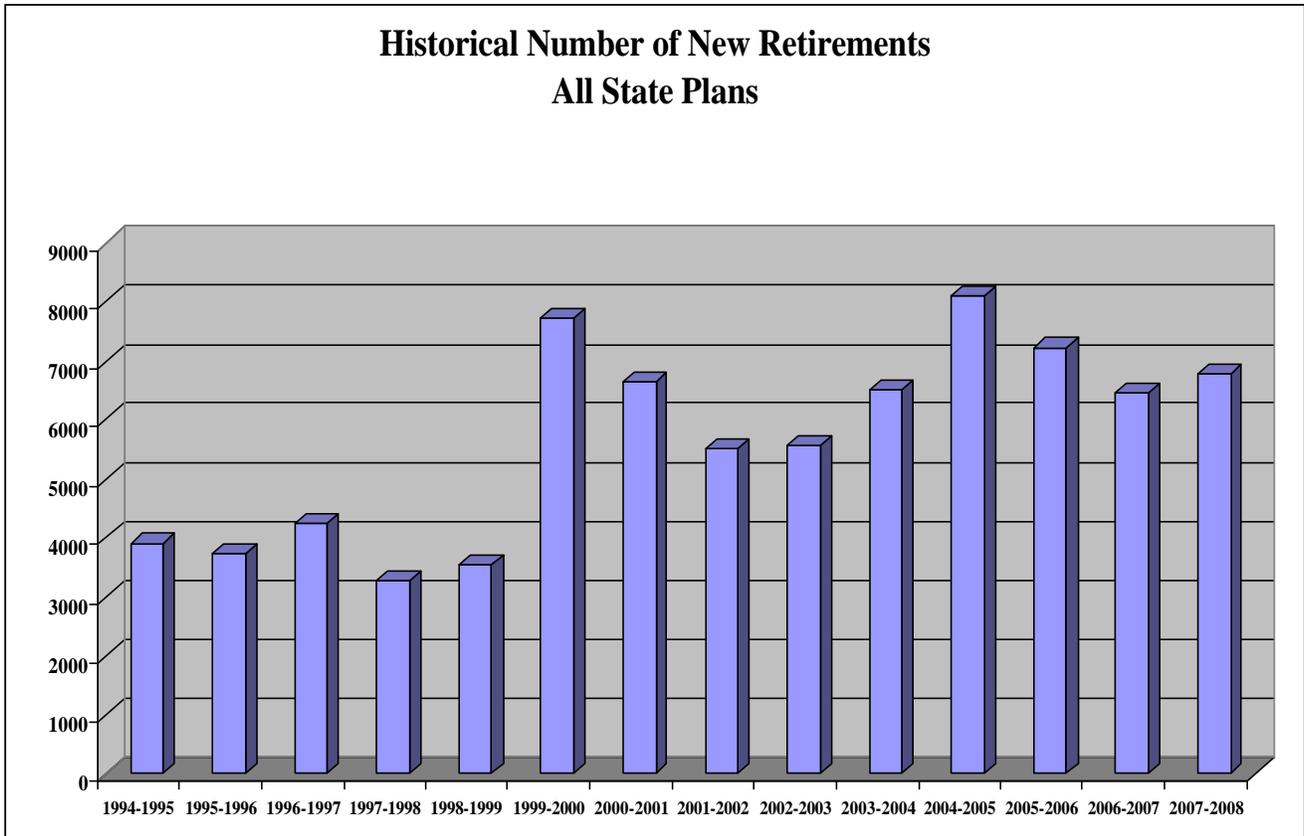
In recent years, the number of retirements was much greater than anticipated by the actuarial assumptions. The trend started in fiscal year 2004-2005 when the actual number of retirements were almost 50% greater than those expected by the actuarial assumptions. That trend has been coming down. In 2005-2006, the actual number of retirements was 26% greater than expected and in 2006-2007 it was 13% greater. In fiscal year 2007-2008, the number of State retirements increased by about 5% over the previous year and was 3% greater than expected by the actuarial assumptions.

In 2007-2008, the number of retirements was below the assumed retirements for the State Miscellaneous, State Industrial and State Safety plans but was greater for the State Police Officers & Firefighters plan and the California Highway Patrol plan. We believe the reasons why these two plans had higher retirements was due to recent benefit changes.

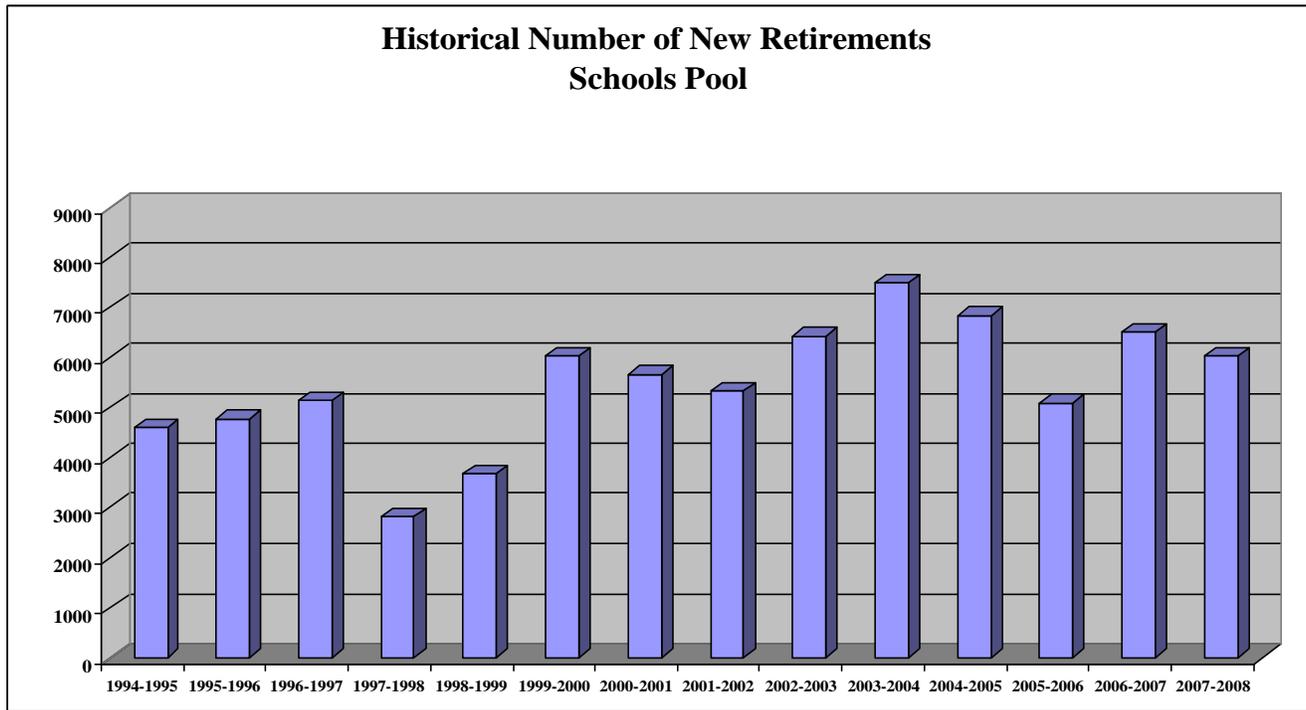
During the past year, the Actuarial Office has been working on an experience study and the results will be shared with the Board no later than the fall of 2009. In that study we are looking at demographic experience and will be deciding whether or not changes to existing actuarial assumptions are necessary and appropriate.

As can be seen from the recent trend in retirements, the main concern with reacting to sudden changes in behaviors and modifying assumptions is the fact that one would be changing actuarial assumptions and impacting employer rates each time a sudden change in behavior occurs, even if that change is temporary. Further information will be provided when the results of the demographic experience study will be presented to the Board.

The chart below shows the historical number of new retirements for the State Plans.



The chart below shows the historical number of new retirements for the Schools pool.



History of the Expected Contribution Requirements

The following table shows the history the employer contributions set by CalPERS based on projected payroll for the State plans and the Schools pool going back to fiscal year 1996-1997.

Fiscal Year	Total State Contributions	Total School Contributions
1996-97	\$1,236,447,373	\$ 416,694,314
1997-98	1,223,327,746	317,571,853
1998-99	766,067,149	0
1999-00	159,460,097	0
2000-01	156,722,747	0
2001-02	677,244,769	0
2002-03	1,189,559,722	228,972,653
2003-04	2,212,518,481	869,501,830
2004-05	2,547,364,178	903,570,002
2005-06	2,428,720,628	826,672,339
2006-07	2,665,262,125	841,504,282
2007-08	2,746,929,250	919,528,538
2008-09	3,025,181,372	966,316,743
2009-2010	\$3,287,572,458	\$1,081,377,863

Funded Status of the Plans

We are continuing to monitor the funded status of the State plans and Schools pool using the market value of assets to ensure that the new rate stabilization methods do not impair the security of benefits.

As a result of the -5.1% investment return experienced by CalPERS in fiscal year 2007-2008 versus the assumed 7.75%, the funded status has declined by close to 12% for all plans. The table below shows the funded status of the plans using the market value of assets.

Funded Ratio of the Retirement Program (Based on the Market Value of Assets)					
	June 30, 2004	June 30, 2005	June 30, 2006	June 30, 2007	June 30, 2008
State Miscellaneous	83.1%	86.2%	89.8%	98.6%	86.1%
State Industrial	88.3%	90.4%	95.0%	103.7%	91.0%
State Safety	81.3%	86.4%	89.2%	97.2%	84.8%
State Police Officers & Firefighters	83.0%	84.4%	86.0%	92.3%	82.2%
California Highway Patrol	78.7%	79.4%	81.5%	88.8%	79.3%
Total State	82.9%	85.5%	88.6%	96.6%	84.9%
Schools	91.4%	96.2%	98.7%	107.8%	93.8%

The table below shows the funded status and the unfunded liability on a market value of asset basis as of June 30, 2008.

	Market Value of Assets	Accrued Liability	Unfunded Accrued Liability	Funded Status
State Miscellaneous	\$59,978,561,976	\$69,647,968,299	\$9,669,406,323	86.1%
State Industrial	2,033,965,764	2,234,918,787	200,953,023	91.0%
State Safety	4,364,987,664	5,146,236,812	781,249,148	84.8%
State Police Officers & Firefighters	19,734,047,278	24,004,305,161	4,270,257,883	82.2%
California Highway Patrol	5,237,575,271	6,608,653,493	1,371,078,222	79.3%
Total State	\$91,349,137,953	\$107,642,082,552	\$16,292,944,552	84.9%
Schools	45,547,901,340	48,537,679,916	2,989,778,576	93.8%

Changes Since the Prior Valuation

ACTUARIAL ASSUMPTIONS

There were no changes in the actuarial assumptions. Appendix A contains a listing of assumptions.

METHODS

There were no changes in methods since the prior valuation.

PLAN PROVISIONS

The only change in the plan provisions from the prior valuation is described below:

AB 2936 (2005-2006 Legislative Session) removed the increase in final compensation used for calculating retirement benefits provided by SB 439 (2003-2004 Legislative Session) for California Highway Patrol members employed in Bargaining Unit 5. The increase in final compensation will be according to the following schedule:

- 8% for members who retire or die on or after July 1, 2004, and prior to July 1, 2008
- 6% for members who retire or die on or after July 1, 2008, and prior to July 1, 2009
- 4% for members who retire or die on or after July 1, 2009, and prior to July 1, 2010
- 2% for members who retire or die on or after July 1, 2010, and prior to July 1, 2011
- No increase for members who retire or die on or after July 1, 2011

Subsequent Events

BENEFIT CHANGES

There are no known changes in benefits on the next valuation.

Summary of Liabilities and Rates

- COMPARISON OF CURRENT AND PRIOR YEAR
- DEVELOPMENT OF ACCRUED AND UNFUNDED LIABILITIES
- DEVELOPMENT OF EMPLOYER CONTRIBUTION RATES
- SCHEDULE OF AMORTIZATION BASES FOR THE RETIREMENT PROGRAM
- GAIN/LOSS ANALYSIS
- DEVELOPMENT OF GROUP TERM LIFE INSURANCE CONTRIBUTIONS
- RECONCILIATION OF EMPLOYER CONTRIBUTION RATES
- RECONCILIATION OF EMPLOYER CONTRIBUTIONS
- EMPLOYER CONTRIBUTION RATE HISTORY
- HISTORY OF FUNDED STATUS AND FUNDING PROGRESS

Comparison of Current and Prior Year

Shown below are the key valuation results for the current valuation compared to the corresponding results from the prior valuation.

STATE MISCELLANEOUS

Participant Information

	June 30, 2007	June 30, 2008
Members Included in the Valuation ¹		
Active Members Tier 1	146,503	149,837
Active Members Tier 2	9,292	8,645
Subtotal Active Members	155,795	158,482
Transfers from Tier 1	22,094	23,404
Transfers from Tier 2	12,992	12,800
Subtotal Transfers	35,086	36,204
Vested Terminations Tier 1	37,896	39,042
Vested Terminations Tier 2	2,084	1,681
Subtotal Vested Terminations ²	39,980	40,723
Receiving Payments Tier 1	142,923	142,827
Receiving Payments Tier 2	4,058	4,116
Subtotal Receiving Payments	146,981	146,943
Subtotal Tier 1	349,416	355,110
Subtotal Tier 2	28,426	27,242
Grand Total	377,842	382,352
Average Entry Age of Active Members Tier 1	34.2	34.5
Average Entry Age of Active Members Tier 2	32.7	32.6
Average Age of Active Members Tier 1	47.8	47.9
Average Age of Active Members Tier 2	47.3	48.1
Average Pay Tier 1	\$ 57,908	\$ 61,112
Average Pay Tier 2	49,015	52,037
Average Pay Total	\$ 57,377	\$ 60,617
Covered Payroll Prior Fiscal Year		
Tier 1	\$ 8,483,635,414	\$ 9,156,816,433
Tier 2	455,445,891	449,859,262
Total	\$ 8,939,081,305	\$ 9,606,675,695
Projected Payroll for Contribution Rate		
Tier 1	\$ 9,093,024,514	\$ 9,811,510,940
Tier 2	436,538,980	429,745,726
Total	\$ 9,529,563,494	\$ 10,241,256,666

1 Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

2 Includes non-vested terminated participants with employee contributions remaining in the plan.

STATE MISCELLANEOUS (CONTINUED)

Funded Status of the Retirement Program

	June 30, 2007	June 30, 2008
Present Value of Benefits	\$ 76,318,318,509	\$ 81,440,954,210
Accrued Liability	\$ 65,341,718,678	\$ 69,647,968,299
Market Value of Assets	\$ 64,441,849,429	\$ 59,978,561,976
Unfunded Liability/(Surplus) on a Market Value of Assets Basis	\$ 899,869,249	\$ 9,669,406,323
Funded Status	98.6%	86.1%

Employer Contribution

	June 30, 2007	June 30, 2008
Tier 1 Contribution Required in Dollars		
Employer Normal Costs	\$ 899,936,636	\$ 976,441,569
Amortization of Unfunded Liability ³	607,171,566	683,400,763
Group Term Life Benefits	-	-
Total	\$ 1,507,108,202	\$ 1,659,842,332
Tier 1 Contribution Required (Percent of Payroll)		
Employer Normal Costs	9.897%	9.952%
Amortization of Unfunded Liability ³	6.677%	6.965%
Group Term Life Benefits	<u>0.000%</u>	<u>0.000%</u>
Total	16.574%	16.917%

Tier 2 Contribution Required in Dollars		
Employer Normal Costs	\$ 42,750,262	\$ 41,994,752
Amortization of Unfunded Liability ³	29,149,163	29,933,061
Group Term Life Benefits	-	-
Total	\$ 71,899,425	\$ 71,927,813
Tier 2 Contribution Required (Percent of Payroll)		
Employer Normal Costs	9.793%	9.772%
Amortization of Unfunded Liability ³	6.677%	6.965%
Group Term Life Benefits	<u>0.000%</u>	<u>0.000%</u>
Total	16.470%	16.737%

³ For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

STATE INDUSTRIAL

Participant Information

	June 30, 2007	June 30, 2008
Members Included in the Valuation ¹		
Active Members	8,859	10,010
Transfers from Industrial	7,631	7,579
Vested Terminations ²	2,573	2,572
Receiving Payments	7,570	7,938
Total	26,633	28,099
Average Entry Age of Active Members	36.9	37.1
Average Age of Active Members	46.1	45.7
Average Pay	\$ 46,631	\$ 48,875
Covered Payroll Prior Fiscal Year	\$ 413,104,094	\$ 489,236,032
Projected Payroll for Contribution Rate	\$ 440,392,201	\$ 521,553,130

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

	June 30, 2007	June 30, 2008
Present Value of Benefits	\$ 2,732,292,503	\$ 3,068,879,096
Accrued Liability	\$ 2,043,852,618	\$ 2,234,918,787
Market Value of Assets	\$ 2,119,415,576	\$ 2,033,965,764
Unfunded Liability/(Surplus) on a Market Value of Assets Basis	\$ (75,562,958)	\$ 200,953,023
Funded Status	103.7%	91.0%

Employer Contribution

	June 30, 2007	June 30, 2008
Contribution Required in Dollars		
Employer Normal Costs	\$ 60,307,308	\$ 72,235,108
Amortization of Unfunded Liability ³	15,412,445	17,220,052
Group Term Life Benefits	184,965	516,338
Total	\$ 75,904,718	\$ 89,971,498
Contribution Required (Percent of Payroll)		
Employer Normal Costs	13.694%	13.850%
Amortization of Unfunded Liability ³	3.500%	3.302%
Group Term Life Benefits	0.042%	0.099%
Total	17.236%	17.251%

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

STATE SAFETY

Participant Information

	June 30, 2007	June 30, 2008
Members Included in the Valuation ¹		
Active Members	22,852	24,961
Transfers From State Safety	4,222	4,484
Vested Terminations ²	3,458	3,941
Receiving Payments	14,074	14,687
Total	44,606	48,073
Average Entry Age of Active Members	41.0	40.8
Average Age of Active Members	47.4	47.3
Average Pay	\$ 62,820	\$ 71,915
Covered Payroll Prior Fiscal Year	\$ 1,435,571,609	\$ 1,795,058,980
Projected Payroll for Contribution Rate	\$ 1,530,400,086	\$ 1,913,633,845

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

	June 30, 2007	June 30, 2008
Present Value of Benefits	\$ 6,898,147,674	\$ 8,182,549,897
Accrued Liability	\$ 4,467,413,982	\$ 5,146,236,812
Market Value of Assets	\$ 4,341,684,190	\$ 4,364,987,664
Unfunded Liability/(Surplus) on a Market Value of Assets Basis	\$ 125,729,792	\$ 781,249,148
Funded Status	97.2%	84.8%

Employer Contribution

	June 30, 2007	June 30, 2008
Contribution Required in Dollars		
Employer Normal Costs	\$ 235,344,925	\$ 291,140,253
Amortization of Unfunded Liability ³	46,127,243	54,082,133
Group Term Life Benefits	290,776	1,129,044
Total	\$ 281,762,944	\$ 346,351,430
Contribution Required (Percent of Payroll)		
Employer Normal Costs	15.378%	15.214%
Amortization of Unfunded Liability ³	3.014%	2.826%
Group Term Life Benefits	0.019%	0.059%
Total	18.411%	18.099%

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

STATE PEACE OFFICERS AND FIREFIGHTERS

Participant Information

	June 30, 2007	June 30, 2008
Members Included in the Valuation ¹		
Active Members	44,864	47,140
Transfers from State POFF	7,782	5,695
Vested Terminations ²	5,410	5,610
Receiving Payments	19,436	21,007
Total	77,492	79,452
Average Entry Age of Active Members	30.2	30.2
Average Age of Active Members	41.1	40.8
Average Pay	\$ 71,511	\$ 71,413
Covered Payroll Prior Fiscal Year	\$ 3,208,256,151	\$ 3,366,389,513
Projected Payroll for Contribution Rate	\$ 3,420,181,521	\$ 3,588,760,580

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

	June 30, 2007	June 30, 2008
Present Value of Benefits	\$ 29,769,106,076	\$ 31,958,641,784
Accrued Liability	\$ 22,249,944,520	\$ 24,004,305,161
Market Value of Assets	\$ 20,538,693,729	\$ 19,734,047,278
Unfunded Liability/(Surplus) on a Market Value of Assets Basis	\$ 1,711,250,791	\$ 4,270,257,883
Funded Status	92.3%	82.2%

Employer Contribution

	June 30, 2007	June 30, 2008
Contribution Required in Dollars		
Employer Normal Costs	\$ 603,867,249	\$ 632,734,378
Amortization of Unfunded Liability ³	287,555,576	294,013,176
Group Term Life Benefits	-	861,303
Total	\$ 891,422,825	\$ 927,608,857
Contribution Required (Percent of Payroll)		
Employer Normal Costs	17.656%	17.631%
Amortization of Unfunded Liability ³	8.408%	8.193%
Group Term Life Benefits	0.000%	0.024%
Total	26.064%	25.848%

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

CALIFORNIA HIGHWAY PATROL

Participant Information

	June 30, 2007	June 30, 2008
Members Included in the Valuation ¹		
Active Members	6,926	7,027
Transfers from CHP	319	316
Vested Terminations ²	312	330
Receiving Payments	7,169	7,358
Total	14,726	15,031
Average Entry Age of Active Members	26.3	26.4
Average Age of Active Members	39.5	39.4
Average Pay	\$ 83,027	\$ 90,065
Covered Payroll Prior Fiscal Year	\$ 575,045,858	\$ 632,887,495
Projected Payroll for Contribution Rate	\$ 613,031,231	\$ 674,693,670

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

	June 30, 2007	June 30, 2008
Present Value of Benefits	\$ 7,654,099,593	\$ 8,054,322,291
Accrued Liability	\$ 6,248,788,122	\$ 6,608,653,493
Market Value of Assets	\$ 5,546,162,490	\$ 5,237,575,271
Unfunded Liability/(Surplus) on a Market Value of Assets Basis	\$ 702,625,632	\$ 1,371,078,222
Funded Status	88.8%	79.3%

Employer Contribution

	June 30, 2007	June 30, 2008
Contribution Required in Dollars		
Employer Normal Costs	\$ 101,695,751	\$ 100,117,794
Amortization of Unfunded Liability ³	95,117,773	91,752,734
Group Term Life Benefits	269,734	-
Total	\$ 197,083,258	\$ 191,870,528
Contribution Required (Percent of Payroll)		
Employer Normal Costs	16.589%	14.839%
Amortization of Unfunded Liability ³	15.516%	13.599%
Group Term Life Benefits	0.044%	0.000%
Total	32.149%	28.438%

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

SCHOOLS

Participant Information

	June 30, 2007	June 30, 2008
Members Included in the Valuation ¹		
Active Members	290,279	297,278
Transfers from Schools	25,483	25,843
Vested Terminations ²	142,208	152,330
Receiving Payments	165,908	170,269
Total	623,878	645,720
Average Entry Age of Active Members	36.7	36.8
Average Age of Active Members	46.1	46.3
Average Pay	\$ 33,122	\$ 35,144
Covered Payroll Prior Fiscal Year	\$ 9,614,716,536	\$ 10,447,573,688
Projected Payroll for Contribution Rate	\$ 10,249,828,655	\$ 11,137,701,227

- Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.
- Includes non-vested terminated participants with employee contributions remaining in the plan.

Funded Status of the Retirement Program

	June 30, 2007	June 30, 2008
Present Value of Benefits	\$ 56,366,819,597	\$ 60,977,507,468
Accrued Liability	\$ 44,810,073,409	\$ 48,537,679,916
Market Value of Assets	\$ 48,292,932,434	\$ 45,547,901,340
Unfunded Liability/(Surplus) on a Market Value of Assets Basis	\$ (3,482,859,025)	\$ 2,989,778,576
Funded Status	107.8%	93.8%

Employer Contribution

	June 30, 2007	June 30, 2008
Contribution Required in Dollars		
Employer Normal Costs	\$ 759,922,296	\$ 825,303,661
Amortization of Unfunded Liability ³	206,394,447	256,074,202
Total	\$ 966,316,743	\$ 1,081,377,863
Contribution Required (Percent of Payroll)		
Employer Normal Costs	7.414%	7.410%
Amortization of Unfunded Liability ³	2.014%	2.299%
Total	9.428%	9.709%

- For rate setting purposes, the unfunded liability is calculated based on the smoothed actuarial value of assets.

Development of Accrued and Unfunded Liabilities

The following table shows the development of the accrued liabilities and the unfunded liabilities based on the market value of assets and represent the true measure of the plan's ability to pay benefits.

	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
1. Present Value of Benefits						
a. Actives and Inactives	\$ 45,852,272,281	\$ 2,115,164,534	\$ 5,925,598,476	\$ 20,280,946,720	\$ 4,128,954,375	\$ 40,255,590,096
b. Retired	<u>35,588,681,929</u>	<u>953,714,562</u>	<u>2,256,951,421</u>	<u>11,677,695,064</u>	<u>3,925,367,916</u>	<u>20,721,917,372</u>
c. Total	\$ 81,440,954,210	\$ 3,068,879,096	\$ 8,182,549,897	\$ 31,958,641,784	\$ 8,054,322,291	\$ 60,977,507,468
2. Present Value of Future Employee Contributions	\$ 3,630,261,440	\$ 195,931,566	\$ 856,794,253	\$ 2,318,653,692	\$ 468,093,807	\$ 6,215,840,831
3. Present Value of Future Employer Normal Costs	\$ 8,162,724,471	\$ 638,028,743	\$ 2,179,518,832	\$ 5,635,682,931	\$ 977,574,991	\$ 6,223,986,721
4. Accrued Liability [(1c) - (2) - (3)]	\$ 69,647,968,299	\$ 2,234,918,787	\$ 5,146,236,812	\$ 24,004,305,161	\$ 6,608,653,493	\$ 48,537,679,916
5. Market Value of Assets (MVA)	\$ 59,978,561,976	\$ 2,033,965,764	\$ 4,364,987,664	\$ 19,734,047,278	\$ 5,237,575,271	\$ 45,547,901,340
6. Unfunded Liability/(Surplus) MVA Basis [(4) - (5)]	\$ 9,669,406,323	\$ 200,953,023	\$ 781,249,148	\$ 4,270,257,883	\$ 1,371,078,222	\$ 2,989,778,576
7. Funded Status MVA Basis [(5)/(4)]	86.1%	91.0%	84.8%	82.2%	79.3%	93.8%

Development of Employer Contribution Rates

The following table shows the development of the unfunded liabilities based on the smoothed actuarial value of assets. The unfunded liability on an actuarial value of assets basis is used only for purposes of setting the employer contribution and keeping the contribution rates as smooth as possible from year to year.

	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
Accrued Liability	\$ 69,647,968,299	\$ 2,234,918,787	\$ 5,146,236,812	\$ 24,004,305,161	\$ 6,608,653,493	\$ 48,537,679,916
Actuarial Value of Assets (AVA)	<u>\$ 58,425,198,834</u>	<u>\$ 2,001,816,253</u>	<u>\$ 4,310,297,243</u>	<u>\$ 19,439,489,292</u>	<u>\$ 5,126,856,187</u>	<u>\$ 44,566,381,179</u>
Unfunded Liability/(Surplus) AVA Basis	\$ 11,222,769,465	\$ 233,102,534	\$ 835,939,569	\$ 4,564,815,869	\$ 1,481,797,306	\$ 3,971,298,737

The following table shows the development of the employer contribution rates which includes the amortization of the unfunded liability calculated on an actuarial value of assets basis.

	State Miscellaneous		State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
	Tier 1	Tier 2					
Employer Contribution Amount							
Normal Cost	\$ 976,441,569	\$ 41,994,752	\$ 72,235,108	\$ 291,140,253	\$ 632,734,378	\$ 100,117,794	\$ 825,303,661
Payment on the Unfunded Liability	683,400,763	29,933,061	17,220,052	54,082,133	294,013,176	91,752,734	256,074,202
Payment for Term Life Benefits (Sec. 21600-21605)	-	-	516,338	1,129,044	861,303	-	N/A
Total Employer Contribution Amount	\$ 1,659,842,332	\$ 71,927,813	\$ 89,971,498	\$ 346,351,430	\$ 927,608,857	\$ 191,870,528	\$ 1,081,377,863
Projected Payroll	\$ 9,811,510,940	\$ 429,745,726	\$ 521,553,130	\$ 1,913,633,845	\$ 3,588,760,580	\$ 674,693,670	\$ 11,137,701,227
Employer Contribution (as a percent of payroll)							
Normal Cost	9.952%	9.772%	13.850%	15.214%	17.631%	14.839%	7.410%
Payment on the Unfunded Liability	6.965%	6.965%	3.302%	2.826%	8.193%	13.599%	2.299%
Payment for Term Life Benefits (Sec. 21600-21605)	0.000%	0.000%	0.099%	0.059%	0.024%	0.000%	N/A
Total Employer Contribution Rate	16.917%	16.737%	17.251%	18.099%	25.848%	28.438%	9.709%

Schedule of Amortization Bases for the Retirement Program

The schedule below shows the development of the payment on the amortization bases used to determine the employer contribution rates. Each row of the schedule gives a brief description of a base (or portion of the Unfunded Actuarial Liability), the date the base was established, the balance of the base on the valuation date, and the number of years remaining in the amortization period. In addition, we show the expected payment for the year immediately following the valuation date, the balance on the date a year after the valuation date, and the scheduled payment for fiscal year 2009-2010. Please refer to Appendix A for an explanation of how amortization periods are determined.

State Miscellaneous

Reason for Base	Date Established	Remaining Amortization Period	Balance on 6/30/2008	Expected Payment in 2008-2009	Amount Remaining on 6/30/2009	Scheduled Payment for Fiscal Year 2009-2010
Reclass of BU 7 Members	6/30/2005	17	\$ (94,803,081)	\$ (7,667,516)	\$ (94,191,231)	\$ (7,916,710)
New Rate Stabilization Policies	6/30/2004	16	\$ (201,820,919)	\$ (16,962,914)	\$ (199,854,078)	\$ (17,514,208)
Actuarial Equivalent Reduction Benefits	6/30/2004	16	\$ 279,939,819	\$ 23,528,755	\$ 277,211,673	\$ 24,293,440
Benefit Change (SB 1801)	6/30/2003	15	\$ (2,647,705)	\$ (232,032)	\$ (2,612,047)	\$ (239,573)
Assumption Change	6/30/2003	15	\$ 907,100,363	\$ 79,493,723	\$ 894,884,012	\$ 82,077,269
(Gain)/Loss	6/30/2000	30	\$ 10,223,280,549	\$ 551,451,792	\$ 10,443,162,956	\$ 627,122,134
Payment (Gain)/Loss	6/30/2001	30	\$ 111,720,439	\$ 27,551,185	\$ 91,779,900	\$ 5,511,473
Total			\$ 11,222,769,465	\$ 657,162,993	\$ 11,410,381,185	\$ 713,333,825

State Industrial

Reason for Base	Date Established	Remaining Amortization Period	Balance on 6/30/2008	Expected Payment in 2008-2009	Amount Remaining on 6/30/2009	Scheduled Payment for Fiscal Year 2009-2010
New Rate Stabilization Policies	6/30/2004	16	\$ (6,928,433)	\$ (582,330)	\$ (6,860,912)	\$ (601,256)
Actuarial Equivalent Reduction Benefits	6/30/2004	16	\$ 12,584,574	\$ 1,057,725	\$ 12,461,931	\$ 1,092,101
(Gain)/Loss	6/30/2002	30	\$ 130,210,305	\$ 6,417,649	\$ 133,639,912	\$ 8,025,207
Payment (Gain)/Loss	6/30/2003	30	\$ 68,185	\$ 1,483,404	\$ (1,466,343)	\$ (88,055)
Assumption Change	6/30/2003	15	\$ 97,167,903	\$ 8,515,307	\$ 95,859,297	\$ 8,792,055
Total			\$ 233,102,534	\$ 16,891,755	\$ 233,633,885	\$ 17,220,052

Schedule of Amortization Bases for the Retirement Program (Continued)

State Safety

Reason for Base	Date Established	Remaining Amortization Period	Balance on 6/30/2008	Expected Payment in 2008-2009	Amount Remaining on 6/30/2009	Scheduled Payment for Fiscal Year 2009-2010
New Rate Stabilization Policies	6/30/2004	16	\$ (7,816,796)	\$ (656,996)	\$ (7,740,618)	\$ (678,349)
(Gain)/Loss	6/30/2001	30	\$ 746,009,539	\$ 37,475,359	\$ 764,924,845	\$ 45,934,484
Payment (Gain)/Loss	6/30/2002	30	\$ (10,399,284)	\$ 12,149,271	\$ (23,816,500)	\$ (1,430,204)
Assumption Change	6/30/2003	15	\$ (3,523,314)	\$ (308,766)	\$ (3,475,863)	\$ (318,800)
Benefit Change (Arnett)	6/30/2002	14	\$ 111,669,424	\$ 10,242,133	\$ 109,692,194	\$ 10,575,003
Total			\$ 835,939,569	\$ 58,901,001	\$ 839,584,058	\$ 54,082,134

State Peace Officers and Firefighters

Reason for Base	Date Established	Remaining Amortization Period	Balance on 6/30/2008	Expected Payment in 2008-2009	Amount Remaining on 6/30/2009	Scheduled Payment for Fiscal Year 2009-2010
Benefit Change (SB 65)	6/30/2006	18	\$ 293,545,379	\$ 22,913,106	\$ 292,510,724	\$ 23,657,782
New Rate Stabilization Policies	6/30/2004	16	\$ (57,817,669)	\$ (4,859,536)	\$ (57,254,209)	\$ (5,017,471)
(Gain)/Loss	6/30/2002	30	\$ 3,983,194,210	\$ 237,779,787	\$ 4,045,069,929	\$ 242,910,399
Payment (Gain)/Loss	6/30/2003	30	\$ (53,562,303)	\$ 2,341,931	\$ (60,144,369)	\$ (3,611,728)
Benefit Change (SB 183)	6/30/2004	16	\$ 18,867,901	\$ 1,585,835	\$ 18,684,024	\$ 1,637,374
Assumption Change	6/30/2003	15	\$ 380,588,351	\$ 33,352,853	\$ 375,462,787	\$ 34,436,821
Total			\$ 4,564,815,869	\$ 293,113,976	\$ 4,614,328,886	\$ 294,013,177

Schedule of Amortization Bases for the Retirement Program (Continued)

California Highway Patrol

Reason for Base	Date Established	Remaining Amortization Period	Balance on 6/30/2008	Expected Payment in 2008-2009	Amount Remaining on 6/30/2009	Scheduled Payment for Fiscal Year 2009-2010
Benefit Change (AB 2936)	6/30/2008	20	\$ (185,961,988)	\$ 10,716,684	\$ (211,498,249)	\$ (15,974,708)
Benefit Change (SB 439)	6/30/2005	17	\$ 178,799,274	\$ 14,460,989	\$ 177,645,321	\$ 14,930,971
New Rate Stabilization Policies (Gain)/Loss	6/30/2004 6/30/2001	16 30	\$ (19,716,734) \$ 1,440,902,004	\$ (1,657,178) \$ 76,074,823	\$ (19,524,585) \$ 1,473,604,191	\$ (1,711,037) \$ 88,491,371
Payment (Gain)/Loss	6/30/2002	30	\$ (9,630,782)	\$ 6,412,974	\$ (17,034,008)	\$ (1,022,909)
Assumption Change	6/30/2003	15	\$ 62,511,460	\$ 5,478,191	\$ 61,669,588	\$ 5,656,232
Benefit Change (SB 1801)	6/30/2003	15	\$ 9,903,598	\$ 867,902	\$ 9,770,221	\$ 896,108
Benefit Change (Arnett)	6/30/2002	14	\$ 2,074,870	\$ 190,304	\$ 2,038,132	\$ 196,488
Benefit Change (AB 2621)	6/30/2001	13	\$ 2,915,604	\$ 281,082	\$ 2,849,793	\$ 290,217
Total			\$ 1,481,797,306	\$ 112,825,771	\$ 1,479,520,404	\$ 91,752,733

Schools

Reason for Base	Date Established	Remaining Amortization Period	Balance on 6/30/2008	Expected Payment in 2008-2009	Amount Remaining on 6/30/2009	Scheduled Payment for Fiscal Year 2009-2010
(Gain)/Loss	6/30/2005	30	\$ 1,271,167,925	\$ 35,236,871	\$ 1,333,106,617	\$ 80,054,354
Payment (Gain)/Loss	6/30/2005	30	\$ (3,251,166)	\$ 11,094,395	\$ (15,019,413)	\$ (901,930)
Fresh Start	6/30/2004	26	\$ 2,703,381,978	\$ 171,352,812	\$ 2,735,025,240	\$ 176,921,778
Total			\$ 3,971,298,737	\$ 217,684,078	\$ 4,053,112,444	\$ 256,074,202

Gain and Loss Analysis

STATE MISCELLANEOUS

A. Total (Gain)/Loss for the Year

1. Unfunded Liability/(Surplus) as of 6/30/07	\$ 10,049,247,532
2. Expected Payment on the Unfunded Liability during 2007-2008	621,866,426
3. Interest through 6/30/08 $[0.0775 \times (A1) - ((1 + 0.0775)^{1/2} - 1) \times (A2)]$	755,168,985
4. Change in Unfunded Liability as of 6/30/08 due to Assembly Bill 2936	N/A
5. Expected Unfunded Liability as of 6/30/08 before all other changes $[(A1) - (A2) + (A3)]$	\$ 10,182,550,091
6. Actual Unfunded Liability as of 6/30/08	11,222,769,465
7. Total (Gain)/Loss for 2007-2008 $[(A6) - (A5)]$	\$ 1,040,219,374

B. Contribution (Gain)/Loss for the Year

1. Expected Contribution for 2007-2008	\$ 1,925,331,822
2. Actual Contribution for 2007-2008	2,143,320,443
3. Contribution (Gain)/Loss for 2007-2008 $[(B1) - (B2)]$	\$ (217,988,621)

C. Asset (Gain)/Loss for the Year

1. Actuarial Value of Assets before receivables as of 6/30/07	\$ 54,835,911,807
2. Contributions Received during 2007-2008	2,143,320,443
3. Benefits and Refunds Paid during 2007-2008	(3,340,573,238)
4. Expected Interest for 2007-2008 $[0.0775 \times (C1) + ((1 + 0.0775)^{1/2} - 1) \times ((C2) + (C3))]$	4,204,255,263
5. Receivables for AER and Past Service Benefits	471,330,049
6. Expected Actuarial Value of Assets as of 6/30/08 $[(C1) + (C2) + (C3) + (C4) + (C5)]$	\$ 58,314,244,324
7. Actual Actuarial Value of Assets as of 6/30/08	58,425,198,834
8. Asset (Gain)/Loss for 2007-2008 $[(C6) - (C7)]$	\$ (110,954,510)

D. Liability (Gain)/Loss for the Year

1. Total (Gain)/Loss for 2007-2008 (A8)	\$ 1,040,219,374
2. Contribution (Gain)/Loss for 2007-2008 (B3)	(217,988,621)
3. Asset (Gain)/Loss for 2007-2008 (C8)	(110,954,510)
4. Liability (Gain)/Loss for 2007-2008 $[(D1) - (D2) - (D3)]$	\$ 1,369,162,505

E. Development of the (Gain)/Loss Balance as of 6/30/08

1. (Gain)/Loss Balance as of 6/30/07	\$ 9,021,859,744
2. Payment Made on the Balance during 2007-2008	518,283,927
3. Interest through 6/30/08 $[0.0775 \times (E1) - ((1 + 0.0775)^{1/2} - 1) \times (E2)]$	679,485,360
4. Scheduled (Gain)/Loss Balance as of 6/30/07 $[(E1) - (E2) + (E3)]$	\$ 9,183,061,177
5. (Gain)/Loss for 2007-2008 $[(A8) \text{ above}]$	1,040,219,374
6. Final (Gain)/Loss Balance as of 6/30/08 $[(E4) + (E5)]$	\$ 10,223,280,551

Gain and Loss Analysis (Continued)

STATE INDUSTRIAL

A. Total (Gain)/Loss for the Year

1. Unfunded Liability/(Surplus) as of 6/30/07	\$ 209,570,223
2. Expected Payment on the Unfunded Liability during 2007-2008	15,461,712
3. Interest through 6/30/08 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$	15,653,730
4. Change in Unfunded Liability as of 6/30/08 due to Assembly Bill 2936	N/A
5. Expected Unfunded Liability as of 6/30/08 before all other changes $[(A1) - (A2) + (A3)]$	\$ 209,762,241
6. Actual Unfunded Liability as of 6/30/08	<u>233,102,534</u>
7. Total (Gain)/Loss for 2007-2008 $[(A6) - (A5)]$	\$ 23,340,293

B. Contribution (Gain)/Loss for the Year

1. Expected Contribution for 2007-2008	\$ 90,245,213
2. Actual Contribution for 2007-2008	<u>103,905,788</u>
3. Contribution (Gain)/Loss for 2007-2008 $[(B1) - (B2)]$	\$ (13,660,575)

C. Asset (Gain)/Loss for the Year

1. Actuarial Value of Assets before receivables as of 6/30/07	\$ 1,825,766,950
2. Contributions Received during 2007-2008	103,905,788
3. Benefits and Refunds Paid during 2007-2008	(87,313,443)
4. Expected Interest for 2007-2008 $[0.0775 \times (C1) + ((1 + 0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$	142,127,895
5. Receivables for AER and Past Service Benefits	<u>15,032,669</u>
6. Expected Actuarial Value of Assets as of 6/30/08 $[(C1) + (C2) + (C3) + (C4) + (C5)]$	\$ 1,999,519,859
7. Actual Actuarial Value of Assets as of 6/30/08	<u>2,001,816,253</u>
8. Asset (Gain)/Loss for 2007-2008 $[(C6) - (C7)]$	\$ (2,296,394)

D. Liability (Gain)/Loss for the Year

1. Total (Gain)/Loss for 2007-2008 (A8)	\$ 23,340,293
2. Contribution (Gain)/Loss for 2007-2008 (B3)	(13,660,575)
3. Asset (Gain)/Loss for 2007-2008 (C8)	<u>(2,296,394)</u>
4. Liability (Gain)/Loss for 2007-2008 $[(D1) - (D2) - (D3)]$	\$ 39,297,262

E. Development of the (Gain)/Loss Balance as of 6/30/08

1. (Gain)/Loss Balance as of 6/30/07	\$ 104,092,702
2. Payment Made on the Balance during 2007-2008	5,096,082
3. Interest through 6/30/08 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$	<u>7,873,396</u>
4. Scheduled (Gain)/Loss Balance as of 6/30/07 $[(E1) - (E2) + (E3)]$	\$ 106,870,016
5. (Gain)/Loss for 2007-2008 [(A8) above]	23,340,293
6. Final (Gain)/Loss Balance as of 6/30/08 $[(E4) + (E5)]$	\$ 130,210,309

Gain and Loss Analysis (Continued)

STATE SAFETY

A. Total (Gain)/Loss for the Year

1. Unfunded Liability/(Surplus) as of 6/30/07	\$ 711,998,398
2. Expected Payment on the Unfunded Liability during 2007-2008	51,240,611
3. Interest through 6/30/08 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$	53,231,350
4. Change in Unfunded Liability as of 6/30/08 due to Assembly Bill 2936	N/A
5. Expected Unfunded Liability as of 6/30/08 before all other changes $[(A1) - (A2) + (A3)]$	\$ 713,989,137
6. Actual Unfunded Liability as of 6/30/08	<u>835,939,569</u>
7. Total (Gain)/Loss for 2007-2008 $[(A6) - (A5)]$	\$ 121,950,432

B. Contribution (Gain)/Loss for the Year

1. Expected Contribution for 2007-2008	\$ 362,211,980
2. Actual Contribution for 2007-2008	<u>419,886,273</u>
3. Contribution (Gain)/Loss for 2007-2008 $[(B1) - (B2)]$	\$ (57,674,293)

C. Asset (Gain)/Loss for the Year

1. Actuarial Value of Assets before receivables as of 6/30/07	\$ 3,743,537,180
2. Contributions Received during 2007-2008	419,886,273
3. Benefits and Refunds Paid during 2007-2008	(173,483,848)
4. Expected Interest for 2007-2008 $[0.0775 \times (C1) + ((1 + 0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$	299,494,070
5. Receivables for AER and Past Service Benefits	<u>16,957,109</u>
6. Expected Actuarial Value of Assets as of 6/30/08 $[(C1) + (C2) + (C3) + (C4) + (C5)]$	\$ 4,306,390,784
7. Actual Actuarial Value of Assets as of 6/30/08	<u>4,310,297,243</u>
8. Asset (Gain)/Loss for 2007-2008 $[(C6) - (C7)]$	\$ (3,906,459)

D. Liability (Gain)/Loss for the Year

1. Total (Gain)/Loss for 2007-2008 (A8)	\$ 121,950,432
2. Contribution (Gain)/Loss for 2007-2008 (B3)	(57,674,293)
3. Asset (Gain)/Loss for 2007-2008 (C8)	<u>(3,906,459)</u>
4. Liability (Gain)/Loss for 2007-2008 $[(D1) - (D2) - (D3)]$	\$ 183,531,184

E. Development of the (Gain)/Loss Balance as of 6/30/08

1. (Gain)/Loss Balance as of 6/30/07	\$ 609,752,184
2. Payment Made on the Balance during 2007-2008	31,741,826
3. Interest through 6/30/08 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$	<u>46,048,749</u>
4. Scheduled (Gain)/Loss Balance as of 6/30/07 $[(E1) - (E2) + (E3)]$	\$ 624,059,107
5. (Gain)/Loss for 2007-2008 [(A8) above]	121,950,432
6. Final (Gain)/Loss Balance as of 6/30/08 $[(E4) + (E5)]$	\$ 746,009,539

Gain and Loss Analysis (Continued)

STATE PEACE OFFICERS AND FIREFIGHTERS

A. Total (Gain)/Loss for the Year

1. Unfunded Liability/(Surplus) as of 6/30/07	\$ 4,466,595,954
2. Expected Payment on the Unfunded Liability during 2007-2008	261,556,933
3. Interest through 6/30/08 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$	336,214,968
4. Change in Unfunded Liability as of 6/30/08 due to Assembly Bill 2936	N/A
5. Expected Unfunded Liability as of 6/30/08 before all other changes $[(A1) - (A2) + (A3)]$	\$ 4,541,253,989
6. Actual Unfunded Liability as of 6/30/08	4,564,815,869
7. Total (Gain)/Loss for 2007-2008 $[(A6) - (A5)]$	\$ 23,561,880

B. Contribution (Gain)/Loss for the Year

1. Expected Contribution for 2007-2008	\$ 1,076,736,081
2. Actual Contribution for 2007-2008	1,115,285,249
3. Contribution (Gain)/Loss for 2007-2008 $[(B1) - (B2)]$	\$ (38,549,168)

C. Asset (Gain)/Loss for the Year

1. Actuarial Value of Assets before receivables as of 6/30/07	\$ 17,740,058,181
2. Contributions Received during 2007-2008	1,115,285,249
3. Benefits and Refunds Paid during 2007-2008	(870,791,955)
4. Expected Interest for 2007-2008 $[0.0775 \times (C1) + ((1 + 0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$	1,384,151,849
5. Receivables for AER and Past Service Benefits	49,746,112
6. Expected Actuarial Value of Assets as of 6/30/08 $[(C1) + (C2) + (C3) + (C4) + (C5)]$	\$ 19,418,449,436
7. Actual Actuarial Value of Assets as of 6/30/08	19,439,489,292
8. Asset (Gain)/Loss for 2007-2008 $[(C6) - (C7)]$	\$ (21,039,856)

D. Liability (Gain)/Loss for the Year

1. Total (Gain)/Loss for 2007-2008 (A8)	\$ 23,561,880
2. Contribution (Gain)/Loss for 2007-2008 (B3)	(38,549,168)
3. Asset (Gain)/Loss for 2007-2008 (C8)	(21,039,856)
4. Liability (Gain)/Loss for 2007-2008 $[(D1) - (D2) - (D3)]$	\$ 83,150,904

E. Development of the (Gain)/Loss Balance as of 6/30/08

1. (Gain)/Loss Balance as of 6/30/07	\$ 3,858,754,315
2. Payment Made on the Balance during 2007-2008	190,915,506
3. Interest through 6/30/08 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$	291,793,520
4. Scheduled (Gain)/Loss Balance as of 6/30/07 $[(E1) - (E2) + (E3)]$	\$ 3,959,632,329
5. (Gain)/Loss for 2007-2008 $[(A8) \text{ above}]$	23,561,880
6. Final (Gain)/Loss Balance as of 6/30/08 $[(E4) + (E5)]$	\$ 3,983,194,209

Gain and Loss Analysis (Continued)

CALIFORNIA HIGHWAY PATROL

A. Total (Gain)/Loss for the Year

1. Unfunded Liability/(Surplus) as of 6/30/07	\$ 1,475,065,810
2. Expected Payment on the Unfunded Liability during 2007-2008	92,183,273
3. Interest through 6/30/08 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$	110,812,149
4. Change in Unfunded Liability as of 6/30/08 due to Assembly Bill 2936	(185,961,988)
5. Expected Unfunded Liability as of 6/30/08 before all other changes $[(A1)-(A2)+(A3)+(A4)]$	\$ 1,307,732,698
6. Actual Unfunded Liability as of 6/30/08	<u>1,481,797,306</u>
7. Total (Gain)/Loss for 2007-2008 $[(A6) - (A5)]$	\$ 174,064,608

B. Contribution (Gain)/Loss for the Year

1. Expected Contribution for 2007-2008	\$ 231,906,894
2. Actual Contribution for 2007-2008	<u>267,314,355</u>
3. Contribution (Gain)/Loss for 2007-2008 $[(B1) - (B2)]$	\$ (35,407,461)

C. Asset (Gain)/Loss for the Year

1. Actuarial Value of Assets before receivables as of 6/30/07	\$ 4,764,697,911
2. Contributions Received during 2007-2008	267,314,355
3. Benefits and Refunds Paid during 2007-2008	(293,114,260)
4. Expected Interest for 2007-2008 $[0.0775 \times (C1) + ((1+0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$	368,282,996
5. Receivables for AER and Past Service Benefits	<u>11,766,679</u>
6. Expected Actuarial Value of Assets as of 6/30/08 $[(C1) + (C2) + (C3) + (C4) + (C5)]$	\$ 5,118,947,681
7. Actual Actuarial Value of Assets as of 6/30/08	<u>5,126,856,187</u>
8. Asset (Gain)/Loss for 2007-2008 $[(C6) - (C7)]$	\$ (7,908,506)

D. Liability (Gain)/Loss for the Year

1. Total (Gain)/Loss for 2007-2008 (A8)	\$ 174,064,608
2. Contribution (Gain)/Loss for 2007-2008 (B3)	(35,407,461)
3. Asset (Gain)/Loss for 2007-2008 (C8)	<u>(7,908,506)</u>
4. Liability (Gain)/Loss for 2007-2008 $[(D1) - (D2) - (D3)]$	\$ 217,380,575

E. Development of the (Gain)/Loss Balance as of 6/30/08

1. (Gain)/Loss Balance as of 6/30/07	\$ 1,240,716,978
2. Payment Made on the Balance during 2007-2008	67,469,486
3. Interest through 6/30/08 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$	<u>93,589,905</u>
4. Scheduled (Gain)/Loss Balance as of 6/30/07 $[(E1) - (E2) + (E3)]$	\$ 1,266,837,397
5. (Gain)/Loss for 2007-2008 [(A8) above]	174,064,608
6. Final (Gain)/Loss Balance as of 6/30/08 $[(E4) + (E5)]$	\$ 1,440,902,005

Gain and Loss Analysis (Continued)

SCHOOLS

A. Total (Gain)/Loss for the Year

1. Unfunded Liability/(Surplus) as of 6/30/07	\$ 3,231,454,170
2. Expected Payment on the Unfunded Liability during 2007-2008	187,835,582
3. Interest through 6/30/08 $[0.0775 \times (A1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (A2)]$	243,294,879
4. Change in Unfunded Liability as of 6/30/08 due to Assembly Bill 2936	N/A
5. Expected Unfunded Liability as of 6/30/08 before all other changes $[(A1) - (A2) + (A3)]$	\$ 3,286,913,467
6. Actual Unfunded Liability as of 6/30/08	3,971,298,737
7. Total (Gain)/Loss for 2007-2008 $[(A6) - (A5)]$	\$ 684,385,270

B. Contribution (Gain)/Loss for the Year

1. Expected Contribution for 2007-2008	\$ 1,618,741,444
2. Actual Contribution for 2007-2008	1,735,876,302
3. Contribution (Gain)/Loss for 2007-2008 $[(B1) - (B2)]$	\$ (117,134,858)

C. Asset (Gain)/Loss for the Year

1. Actuarial Value of Assets before receivables as of 6/30/07	\$ 41,553,652,353
2. Contributions Received during 2007-2008	1,735,876,302
3. Benefits and Refunds Paid during 2007-2008	(2,031,860,873)
4. Expected Interest for 2007-2008 $[0.0775 \times (C1) + ((1 + 0.0775)^{\frac{1}{2}} - 1) \times ((C2) + (C3))]$	3,209,152,660
5. Receivables for AER and Past Service Benefits	29,452,154
6. Expected Actuarial Value of Assets as of 6/30/08 $[(C1) + (C2) + (C3) + (C4) + (C5)]$	\$ 44,496,272,596
7. Actual Actuarial Value of Assets as of 6/30/08	44,566,381,179
8. Asset (Gain)/Loss for 2007-2008 $[(C6) - (C7)]$	\$ (70,108,583)

D. Liability (Gain)/Loss for the Year

1. Total (Gain)/Loss for 2007-2008 (A8)	\$ 684,385,270
2. Contribution (Gain)/Loss for 2007-2008 (B3)	(117,134,858)
3. Asset (Gain)/Loss for 2007-2008 (C8)	(70,108,583)
4. Liability (Gain)/Loss for 2007-2008 $[(D1) - (D2) - (D3)]$	\$ 871,628,711

E. Development of the (Gain)/Loss Balance as of 6/30/08

1. (Gain)/Loss Balance as of 6/30/07	\$ 564,235,034
2. Payment Made on the Balance during 2007-2008	20,404,665
3. Interest through 6/30/08 $[0.0775 \times (E1) - ((1 + 0.0775)^{\frac{1}{2}} - 1) \times (E2)]$	42,952,287
4. Scheduled (Gain)/Loss Balance as of 6/30/07 $[(E1) - (E2) + (E3)]$	\$ 586,782,656
5. (Gain)/Loss for 2007-2008 $[(A8) \text{ above}]$	684,385,270
6. Final (Gain)/Loss Balance as of 6/30/08 $[(E4) + (E5)]$	\$ 1,271,167,926

Development of Group Term Life Insurance Contributions

	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol
1. GTLI Market Value of Assets as of June 30, 2007	\$ 20,089,417	\$ 287,892	\$ 1,887,168	\$ 3,232,517	\$ 154,647
2. Contributions Received for GTLI During Fiscal Year 2007-2008	310	120,611	-	-	613,244
3. Benefits Paid for GTLI During Fiscal Year 2007-2008	(3,179,276)	(388,571)	(477,344)	(973,122)	(283,781)
4. Investment Return During Fiscal Year 2007-2008	17,667,927	(24,860)	(102,954)	(184,281)	(28,023)
5. GTLI Market Value of Assets as of June 30, 2008	\$ 34,578,378	\$ (4,928)	\$ 1,306,870	\$ 2,075,114	\$ 456,087
6. Plan's Actuarial Value of Assets As a Percentage of Market Value of Assets	97.390%	98.408%	98.742%	98.504%	97.881%
7. GTLI Actuarial Value of Assets as of June 30, 2008	\$ 33,675,882	\$ (4,850)	\$ 1,290,430	\$ 2,044,070	\$ 446,423
8. Expected GTLI Benefit Payments for Fiscal Year 2008-2009	\$ 5,694,160	\$ 327,308	\$ 1,564,290	\$ 1,917,591	\$ 289,975
9. Closed Group Projected Payroll for Fiscal Year 2008-2009	\$ 9,741,092,521	\$ 502,205,073	\$ 1,803,885,861	\$ 3,461,201,689	\$ 648,218,296
10. Required GTLI Contribution Rate [(1.5 x (8) - 7, but not less than zero) / (9)]	0.000%	0.099%	0.059%	0.024%	0.000%
11. Projected Payroll for Contributions	\$ 10,241,256,666	\$ 521,553,130	\$ 1,913,633,845	\$ 3,588,760,580	\$ 674,693,670
12. Required GTLI Contribution for Fiscal Year 2009-2010* [(10) x (11)]	\$ -	\$ 516,338	\$ 1,129,044	\$ 861,303	\$ -

Reconciliation of Employer Contribution Rates

Change in Normal Cost Rate from 2008-2009 to 2009-2010 for the Retirement Program

	State Miscellaneous		State	State	State Peace	California	Schools
	Tier 1	Tier 2	Industrial	Safety	Officers and Firefighters	Highway Patrol	
2008-2009 Normal Cost Rate	9.897%	9.793%	13.694%	15.378%	17.656%	16.589%	7.414%
Effect of Changes due to Benefit Change (AB 2936)	N/A	N/A	N/A	N/A	N/A	-1.640%	N/A
Effect of (Gain)/Loss	0.055%	-0.021%	0.156%	-0.164%	-0.025%	-0.110%	-0.004%
2009-2010 Normal Cost Rate	9.952%	9.772%	13.850%	15.214%	17.631%	14.839%	7.410%

Change in Unfunded Liability Amortization Rate from 2008-2009 to 2009-2010 for the Retirement Program

	State Miscellaneous		State	State	State Peace	California	Schools
	Tier 1	Tier 2	Industrial	Safety	Officers and Firefighters	Highway Patrol	
2008-2009 Rate to Amortize the Unfunded Liability	6.677%	6.677%	3.500%	3.014%	8.408%	15.516%	2.014%
Effect of Changes due to Benefit Change (AB 2936)	N/A	N/A	N/A	N/A	N/A	-2.368%	N/A
Effect of (Gain)/Loss	0.288%	0.288%	-0.198%	-0.188%	-0.215%	0.451%	0.285%
2009-2010 Rate to Amortize the Unfunded Liability	6.965%	6.965%	3.302%	2.826%	8.193%	13.599%	2.299%

Reconciliation of Employer Contribution Rates (Continued)

	Change in Group Term Life Rate from 2008-2009 to 2009-2010						
	State Miscellaneous		State	State	State Peace	California	Schools
	Tier 1	Tier 2	Industrial	Safety	Officers and Firefighters	Highway Patrol	
2008-2009 Group Term Life Rate	0.000%	0.000%	0.042%	0.019%	0.000%	0.044%	N/A
Effect of (Gain)/Loss	0.000%	0.000%	0.057%	0.040%	0.024%	-0.044%	N/A
2009-2010 Group Term Life Rate	0.000%	0.000%	0.099%	0.059%	0.024%	0.000%	N/A

	Change in Total Rate from 2008-2009 to 2009-2010						
	State Miscellaneous		State	State	State Peace	California	Schools
	Tier 1	Tier 2	Industrial	Safety	Officers and Firefighters	Highway Patrol	
2008-2009 Employer Rates	16.574%	16.470%	17.236%	18.411%	26.064%	32.149%	9.428%
Effect of Changes due to Benefit Change (AB 2936)	N/A	N/A	N/A	N/A	N/A	-4.008%	N/A
Effect of (Gain)/Loss	0.343%	0.267%	0.015%	-0.312%	-0.216%	0.297%	0.281%
2009-2010 Employer Rates	16.917%	16.737%	17.251%	18.099%	25.848%	28.438%	9.709%

Reconciliation of Employer Contributions

Change in Normal Cost Contribution from 2008-2009 to 2009-2010 for the Retirement Program

	State Miscellaneous		State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
	Tier 1	Tier 2					
2008-2009 Normal Cost Contribution	\$899,936,636	\$42,750,262	\$60,307,308	\$235,344,925	\$603,867,249	\$101,695,751	\$759,922,296
Effect of Change in Payroll	71,108,602	(665,263)	11,114,178	58,933,687	29,764,319	10,229,182	65,826,873
Effect of Change due to Benefit Change (AB 2936)	N/A	N/A	N/A	N/A	N/A	(11,064,976)	N/A
Effect of (Gain)/Loss	<u>5,396,331</u>	<u>(90,247)</u>	<u>813,622</u>	<u>(3,138,359)</u>	<u>(897,190)</u>	<u>(742,163)</u>	<u>(445,508)</u>
2009-2010 Normal Cost Contribution	\$976,441,569	\$41,994,752	\$72,235,108	\$291,140,253	\$632,734,378	\$100,117,794	\$825,303,661

Change in Unfunded Liability Amortization Contribution from 2008-2009 to 2009-2010 for the Retirement Program

	State Miscellaneous		State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
	Tier 1	Tier 2					
2008-2009 Amortization of the Unfunded Liability	\$607,171,566	\$29,149,163	\$15,412,445	\$46,127,243	\$287,555,576	\$95,117,773	\$206,394,447
Effect of Progression of Amortization of Prior Unfunded Liability	12,990,918	(1,985,949)	389,587	860,342	5,279,510	1,782,632	6,100,390
Effect of Change due to Benefit Change (AB 2936)	N/A	N/A	N/A	N/A	N/A	(15,974,708)	N/A
Effect of (Gain)/Loss	<u>63,238,279</u>	<u>2,769,847</u>	<u>1,418,020</u>	<u>7,094,548</u>	<u>1,178,090</u>	<u>10,827,037</u>	<u>43,579,365</u>
2009-2010 Amortization of the Unfunded Liability	\$683,400,763	\$29,933,061	\$17,220,052	\$54,082,133	\$294,013,176	\$91,752,734	\$256,074,202

Reconciliation of Employer Contributions (Continued)

	Change in Group Term Life Contribution from 2008-2009 to 2009-2010						
	State Miscellaneous		State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
	Tier 1	Tier 2					
2008-2009 Group Term Life Contribution	\$0	\$0	\$184,965	\$290,776	\$0	\$269,734	N/A
Effect of Change in Payroll	0	0	34,088	72,814	0	27,131	N/A
Effect of (Gain)/Loss	-	-	297,285	765,454	861,303	(296,865)	N/A
2009-2010 Group Term Life Contribution	\$0	\$0	\$516,338	\$1,129,044	\$861,303	\$0	N/A

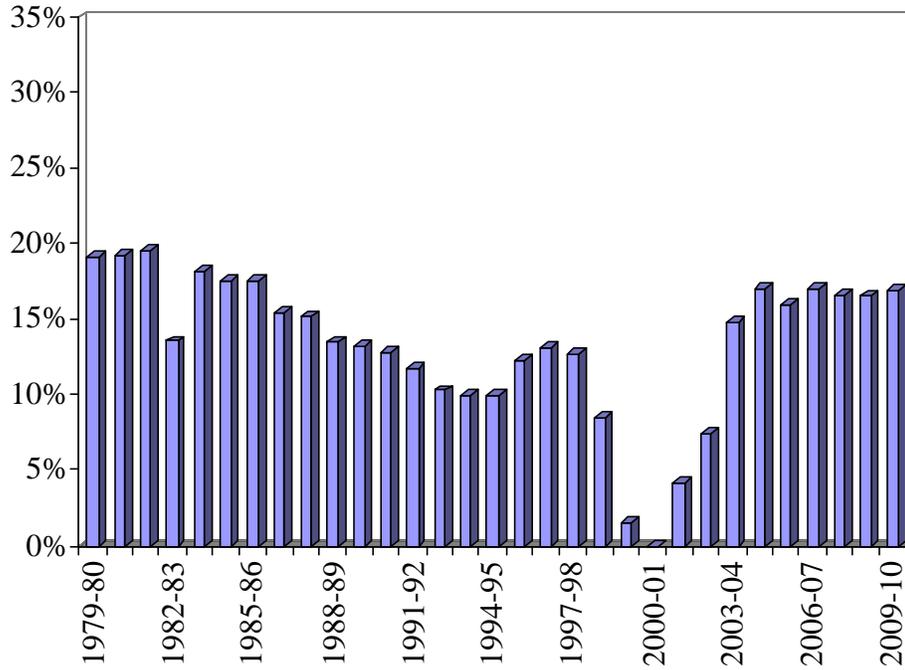
	Change in Total Contribution from 2008-2009 to 2009-2010						
	State Miscellaneous		State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
	Tier 1	Tier 2					
2008-2009 Employer Contribution	\$1,507,108,202	\$71,899,425	\$75,904,718	\$281,762,944	\$891,422,825	\$197,083,258	\$966,316,743
Effect of Change in Payroll and Progression of Amortization of Prior Unfunded Liability	84,099,520	(2,651,212)	11,537,853	59,866,843	35,043,829	12,038,945	71,927,263
Effect of Change due to Benefit Change (AB 2936)	N/A	N/A	N/A	N/A	N/A	(27,039,684)	N/A
Effect of (Gain)/Loss	68,634,610	2,679,600	2,528,927	4,721,643	1,142,203	9,788,009	43,133,857
2009-2010 Employer Contribution	\$1,659,842,332	\$71,927,813	\$89,971,498	\$346,351,430	\$927,608,857	\$191,870,528	\$1,081,377,863

Employer Contribution Rate History

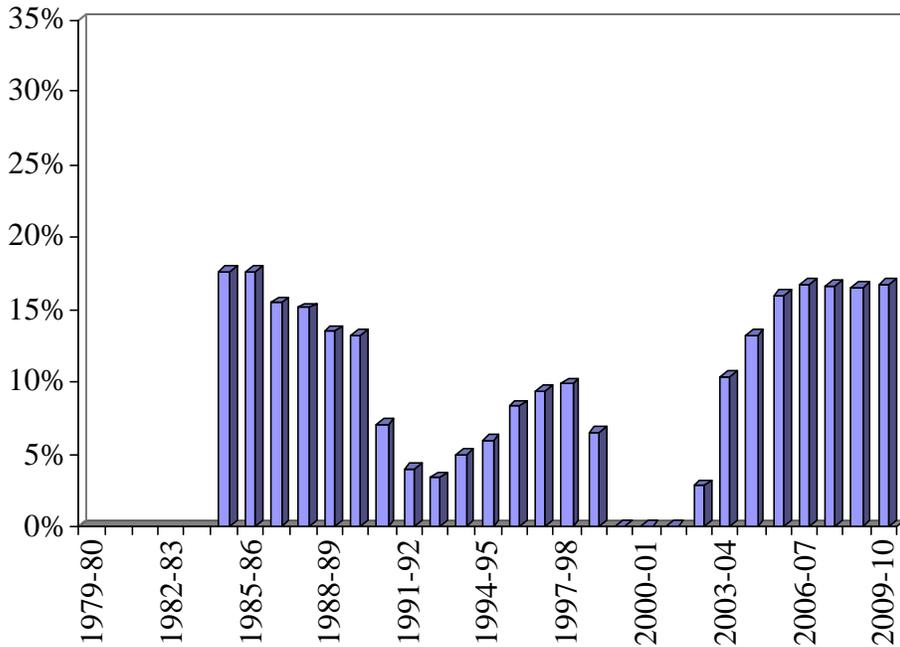
The table below provides a history of the contribution rates for the various State plans and the Schools plan. In cases where the contribution rate changed during the course of a fiscal year, the entry shown is the weighted average of the rates effective during the fiscal year.

Fiscal Year	State Miscellaneous		State	State	State Peace	California	Schools
	Tier 1	Tier 2	Industrial	Safety	Officers and Firefighters	Highway Patrol	
1979-80	19.188%		20.040%	20.106%		31.373%	12.515%
1980-81	19.247%		20.047%	20.145%		31.440%	13.119%
1981-82	19.563%		20.263%	20.409%		31.995%	13.020%
1982-83	13.559%		15.013%	16.381%		19.555%	12.045%
1983-84	18.262%		18.884%	20.615%		24.306%	12.378%
1984-85	17.604%	17.604%	19.976%	20.518%		25.292%	12.378%
1985-86	17.604%	17.604%	19.749%	20.518%	24.310%	24.868%	11.969%
1986-87	15.450%	15.450%	16.638%	22.522%	20.578%	22.150%	11.015%
1987-88	15.202%	15.038%	15.332%	19.229%	17.171%	20.859%	9.718%
1988-89	13.464%	13.413%	16.626%	17.296%	16.431%	18.453%	8.454%
1989-90	13.224%	13.218%	16.783%	17.424%	16.200%	18.318%	8.210%
1990-91	12.878%	6.975%	16.720%	17.916%	15.702%	18.090%	7.282%
1991-92	11.804%	3.986%	13.399%	17.376%	17.386%	21.721%	8.162%
1992-93	10.266%	3.391%	11.995%	15.698%	15.560%	17.074%	7.273%
1993-94	9.939%	5.005%	11.765%	15.485%	15.202%	16.940%	7.066%
1994-95	9.934%	5.947%	10.597%	13.927%	12.817%	15.552%	3.849%
1995-96	12.350%	8.326%	8.981%	14.228%	14.350%	14.778%	6.979%
1996-97	13.106%	9.345%	9.260%	14.656%	15.401%	15.851%	7.787%
1997-98	12.721%	9.822%	9.048%	13.754%	15.270%	15.515%	6.172%
1998-99	8.541%	6.437%	4.583%	9.440%	9.591%	13.541%	0.000%
1999-00	1.491%	0.000%	0.026%	7.487%	0.000%	13.345%	0.000%
2000-01	0.000%	0.000%	0.026%	6.808%	2.729%	13.711%	0.000%
2001-02	4.166%	0.036%	0.350%	12.923%	9.638%	16.897%	0.000%
2002-03	7.413%	2.813%	2.858%	17.055%	13.925%	23.076%	2.894%
2003-04	14.843%	10.265%	11.099%	21.930%	20.325%	32.653%	10.420%
2004-05	17.022%	13.216%	16.386%	20.773%	23.841%	33.434%	9.952%
2005-06	15.942%	15.890%	17.147%	19.026%	23.563%	26.396%	9.116%
2006-07	16.997%	16.778%	17.861%	19.294%	24.505%	31.463%	9.124%
2007-08	16.633%	16.565%	17.345%	18.835%	25.552%	32.212%	9.306%
2008-09	16.574%	16.470%	17.236%	18.411%	26.064%	32.149%	9.428%
2009-10	16.917%	16.737%	17.251%	18.099%	25.848%	28.438%	9.709%

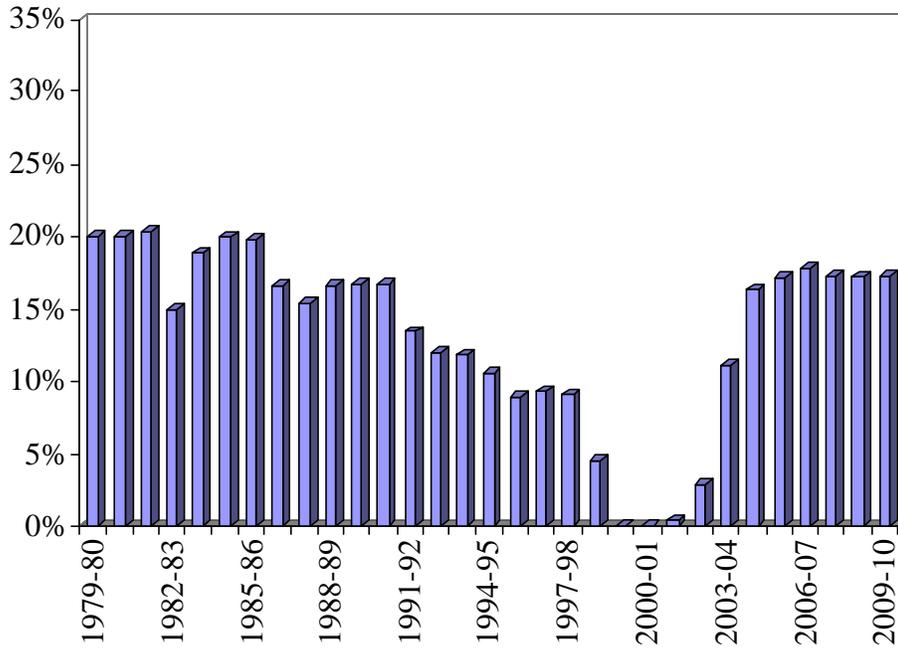
State Miscellaneous Tier 1 Rates



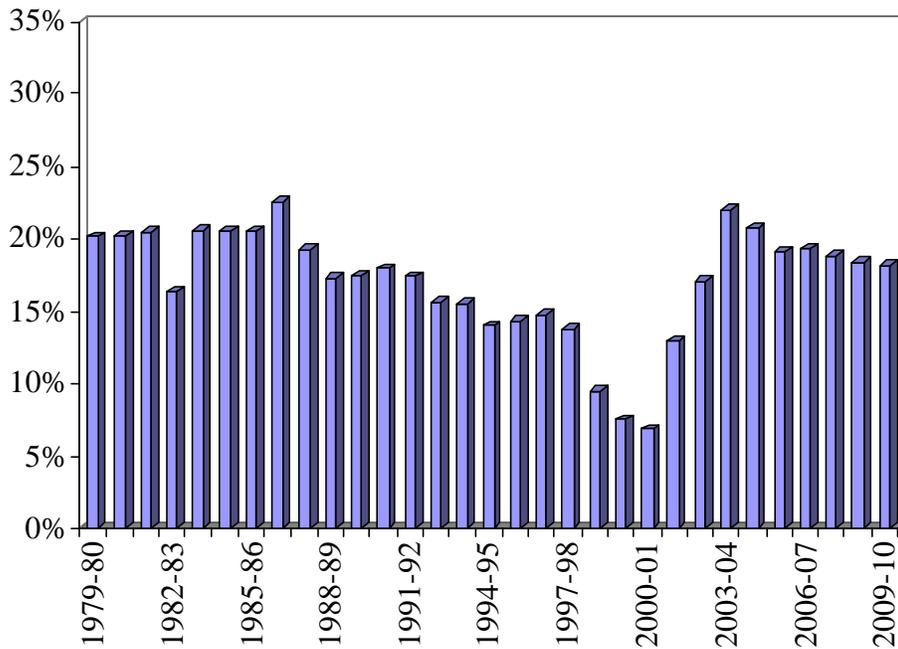
State Miscellaneous Tier 2 Rates



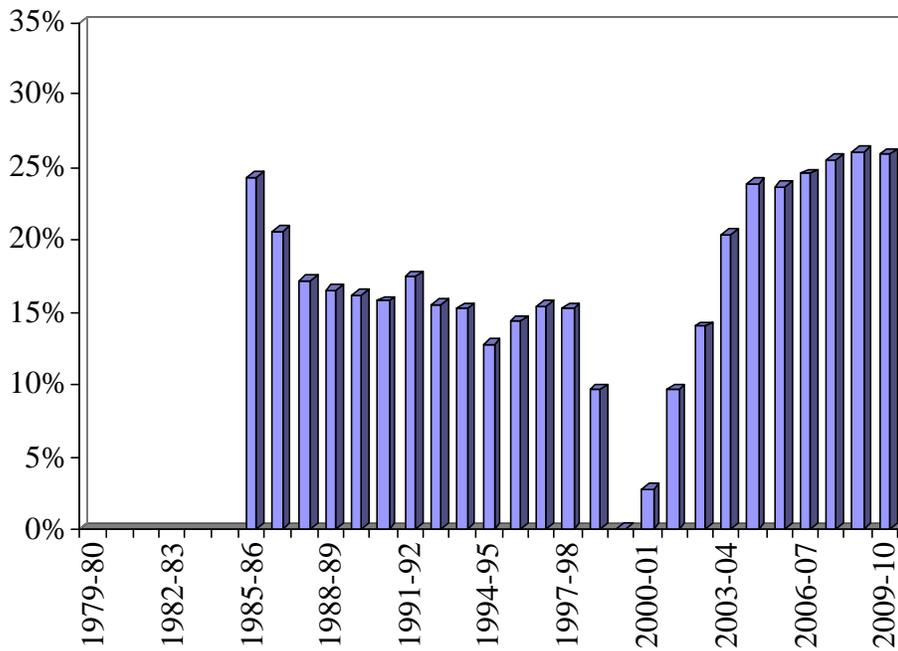
State Industrial Rates



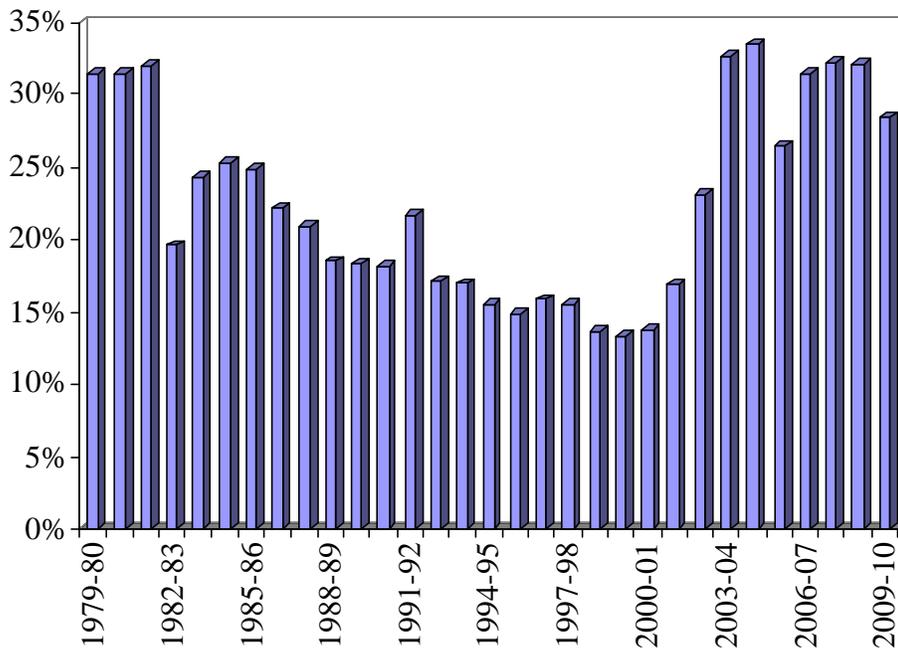
State Safety Rates



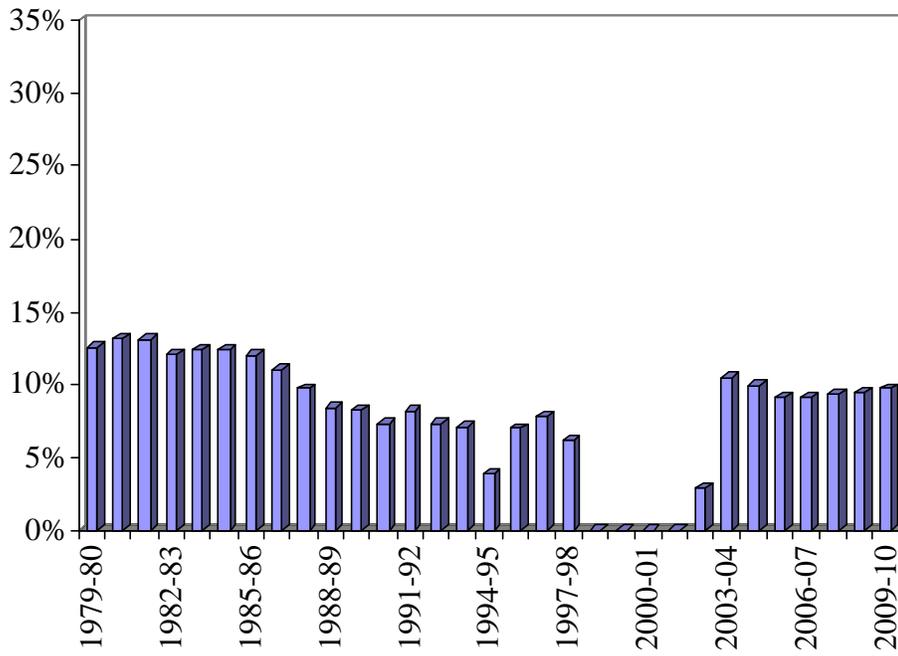
State Peace Officers and Firefighters Rates



California Highway Patrol Rates



Schools Rates

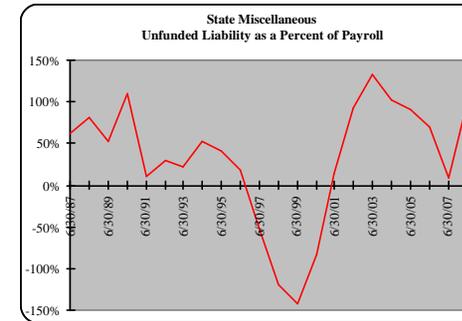
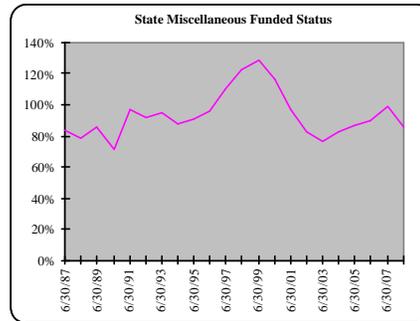
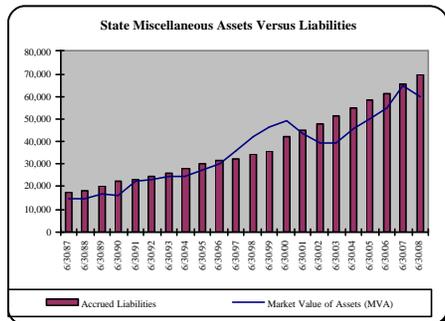


History of Funded Status and Funding Progress

Shown below is the history of funding progress for the plans. One could view the trend in the ratio of the unfunded liability to covered payroll as a measure of the ability of the employer to address the unfunded liability.

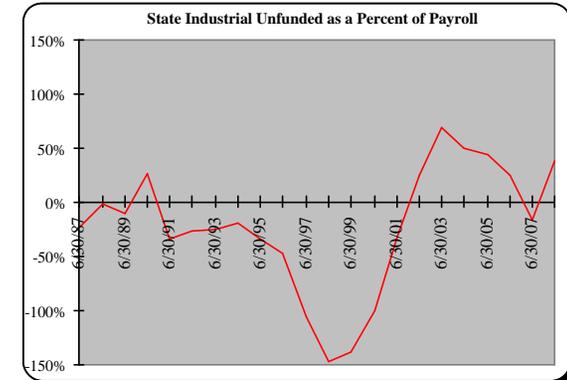
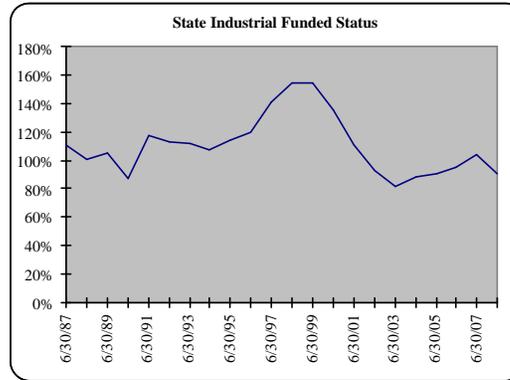
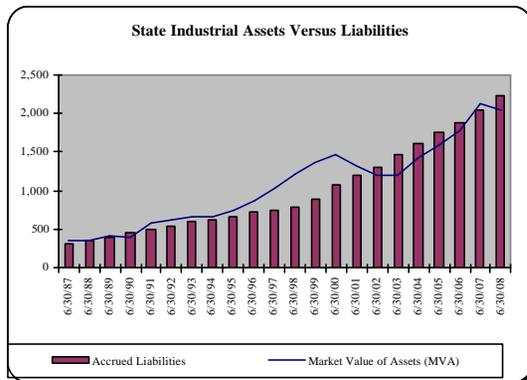
State Miscellaneous (Dollars in Millions)

Valuation Date	Actuarial Accrued Liabilities	Market Value of Assets (MVA)	Funded Status (MVA)	Unfunded Liabilities/ (Surplus) (MVA)	Projected Payroll for Contribution	Unfunded/ (Surplus) as a % of Payroll
6/30/87	\$17,216.59	\$14,341.10	83.3%	\$2,875.49	\$4,632.96	62.1%
6/30/88	18,551.55	14,534.21	78.3%	\$4,017.34	4,912.26	81.8%
6/30/89	19,971.99	17,132.13	85.8%	\$2,839.87	5,348.02	53.1%
6/30/90	22,441.71	16,026.60	71.4%	\$6,415.10	5,815.86	110.3%
6/30/91	23,152.67	22,441.42	96.9%	\$711.24	6,302.82	11.3%
6/30/92	24,887.16	22,978.69	92.3%	\$1,908.47	6,242.74	30.6%
6/30/93	26,162.26	24,714.91	94.5%	\$1,447.35	6,310.21	22.9%
6/30/94	27,820.55	24,278.25	87.3%	\$3,542.30	6,826.52	51.9%
6/30/95	29,959.51	27,087.75	90.4%	\$2,871.76	7,009.46	41.0%
6/30/96	31,742.11	30,451.89	95.9%	\$1,290.22	6,881.12	18.8%
6/30/97	32,557.43	35,958.74	110.4%	(\$3,401.31)	6,623.62	-51.4%
6/30/98	34,169.38	42,011.09	122.9%	(\$7,841.72)	6,592.21	-119.0%
6/30/99	35,771.22	46,176.43	129.1%	(\$10,405.22)	7,332.11	-141.9%
6/30/00	42,386.05	49,207.61	116.1%	(\$6,821.57)	8,246.46	-82.7%
6/30/01	45,261.49	43,933.20	97.1%	\$1,328.30	8,815.88	15.1%
6/30/02	48,118.21	39,530.08	82.2%	\$8,588.13	9,238.43	93.0%
6/30/03	51,558.91	39,324.37	76.3%	\$12,234.54	9,207.49	132.9%
6/30/04	54,700.51	45,459.67	83.1%	\$9,240.84	9,078.96	101.8%
6/30/05	58,266.63	50,230.53	86.2%	\$8,036.10	8,896.91	90.3%
6/30/06	61,298.78	55,050.67	89.8%	\$6,248.11	8,956.47	69.8%
6/30/07	65,341.72	64,441.85	98.6%	\$899.87	9,529.56	9.4%
6/30/08	69,647.97	59,978.56	86.1%	\$9,669.41	10,241.26	94.4%



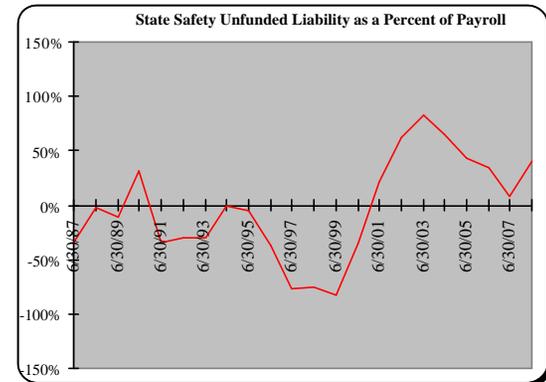
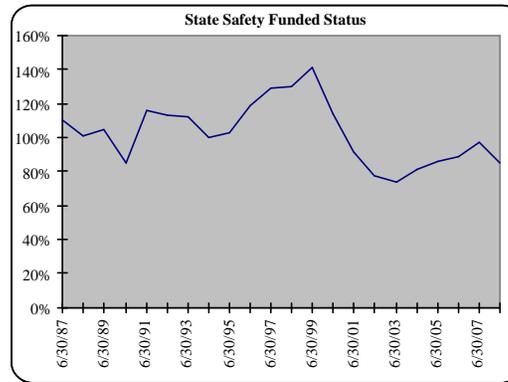
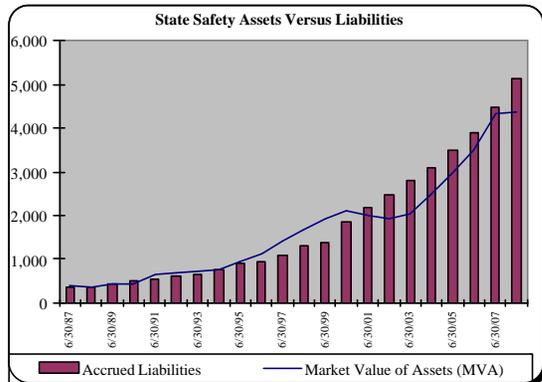
State Industrial
(Dollars in Millions)

Valuation Date	Actuarial Accrued Liabilities	Market Value of Assets (MVA)	Funded Status (MVA)	Unfunded Liabilities/ (Surplus) (MVA)	Projected Payroll for Contribution	Unfunded/ (Surplus) as a % of Payroll
6/30/87	\$315.86	\$350.09	110.8%	(\$34.22)	\$146.17	-23.4%
6/30/88	344.81	\$347.47	100.8%	(\$2.66)	166.90	-1.6%
6/30/89	386.48	\$405.87	105.0%	(\$19.39)	191.17	-10.1%
6/30/90	459.94	\$401.13	87.2%	\$58.81	224.06	26.2%
6/30/91	492.36	\$579.06	117.6%	(\$86.71)	256.41	-33.8%
6/30/92	539.59	\$609.95	113.0%	(\$70.36)	268.41	-26.2%
6/30/93	596.89	\$667.52	111.8%	(\$70.63)	278.37	-25.4%
6/30/94	618.92	\$665.17	107.5%	(\$46.25)	235.06	-19.7%
6/30/95	659.45	\$750.80	113.9%	(\$91.35)	270.74	-33.7%
6/30/96	721.31	\$861.49	119.4%	(\$140.18)	293.77	-47.7%
6/30/97	740.68	\$1,042.38	140.7%	(\$301.69)	284.64	-106.0%
6/30/98	789.88	\$1,226.17	155.2%	(\$436.29)	296.55	-147.1%
6/30/99	880.05	\$1,359.58	154.5%	(\$479.53)	343.75	-139.5%
6/30/00	1,078.75	\$1,463.21	135.6%	(\$384.45)	379.44	-101.3%
6/30/01	1,196.07	\$1,325.06	110.8%	(\$128.99)	390.17	-33.1%
6/30/02	1,294.63	\$1,199.71	92.7%	\$94.92	389.72	24.4%
6/30/03	1,462.07	\$1,200.75	82.1%	\$261.32	381.30	68.5%
6/30/04	1,601.67	\$1,414.67	88.3%	\$187.01	377.65	49.5%
6/30/05	1,753.85	\$1,586.13	90.4%	\$167.72	379.50	44.2%
6/30/06	1,870.23	\$1,776.30	95.0%	\$93.93	381.08	24.6%
6/30/07	2,043.85	\$2,119.42	103.7%	(\$75.56)	440.39	-17.2%
6/30/08	2,234.92	\$2,033.97	91.0%	\$200.95	521.55	38.5%



State Safety
(Dollars in Millions)

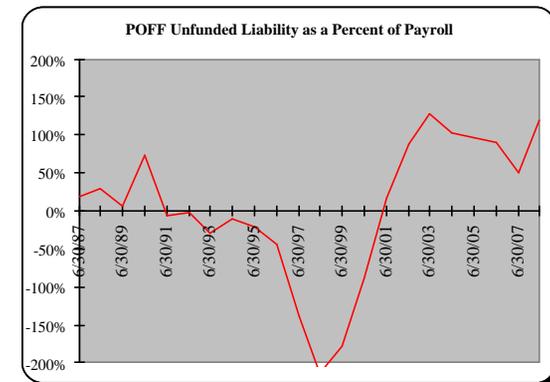
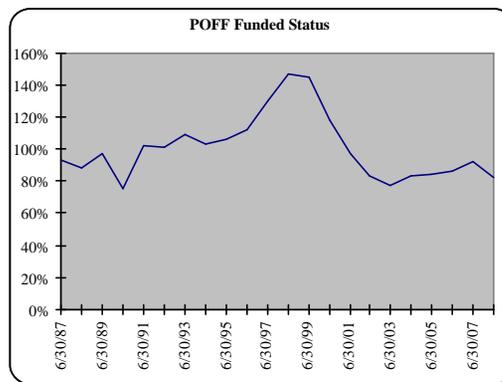
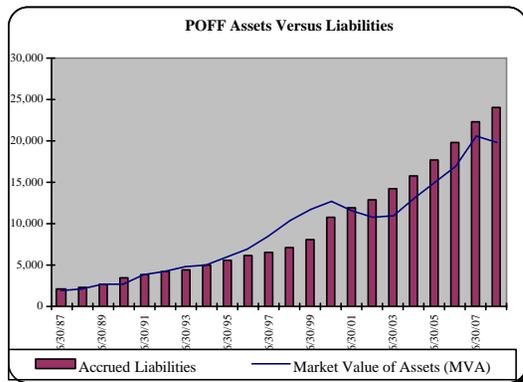
Valuation Date	Actuarial Accrued Liabilities	Market Value of Assets (MVA)	Funded Status (MVA)	Unfunded Liabilities/ (Surplus) (MVA)	Projected Payroll for Contribution	Unfunded/ (Surplus) as a % of Payroll
6/30/87	\$349.50	\$387.09	110.8%	(\$37.59)	\$112.68	-33.4%
6/30/88	369.94	\$372.43	100.7%	(\$2.49)	133.51	-1.9%
6/30/89	420.00	\$440.28	104.8%	(\$20.28)	184.89	-11.0%
6/30/90	498.73	\$425.64	85.3%	\$73.09	231.79	31.5%
6/30/91	548.01	\$636.70	116.2%	(\$88.70)	262.42	-33.8%
6/30/92	602.36	\$679.63	112.8%	(\$77.27)	262.99	-29.4%
6/30/93	644.22	\$721.61	112.0%	(\$77.39)	265.34	-29.2%
6/30/94	761.10	\$761.74	100.1%	(\$0.64)	385.40	-0.2%
6/30/95	913.75	\$936.36	102.5%	(\$22.61)	408.03	-5.5%
6/30/96	946.58	\$1,122.60	118.6%	(\$176.02)	473.79	-37.2%
6/30/97	1,086.00	\$1,403.64	129.2%	(\$317.64)	413.78	-76.8%
6/30/98	1,285.33	\$1,671.77	130.1%	(\$386.45)	510.51	-75.7%
6/30/99	1,363.94	\$1,927.29	141.3%	(\$563.35)	681.63	-82.6%
6/30/00	1,864.69	\$2,121.78	113.8%	(\$257.09)	759.19	-33.9%
6/30/01	2,179.43	\$1,999.67	91.8%	\$179.76	850.00	21.1%
6/30/02	2,476.47	\$1,925.90	77.8%	\$550.56	875.83	62.9%
6/30/03	2,788.06	\$2,049.31	73.5%	\$738.75	890.67	82.9%
6/30/04	3,087.45	\$2,508.66	81.3%	\$578.79	889.30	65.1%
6/30/05	3,472.58	\$2,999.91	86.4%	\$472.67	1,106.95	42.7%
6/30/06	3,906.96	\$3,486.19	89.2%	\$420.77	1,225.72	34.3%
6/30/07	4,467.41	\$4,341.68	97.2%	\$125.73	1,530.40	8.2%
6/30/08	5,146.24	\$4,364.99	84.8%	\$781.25	1,913.63	40.8%



State Peace Officers and Firefighters

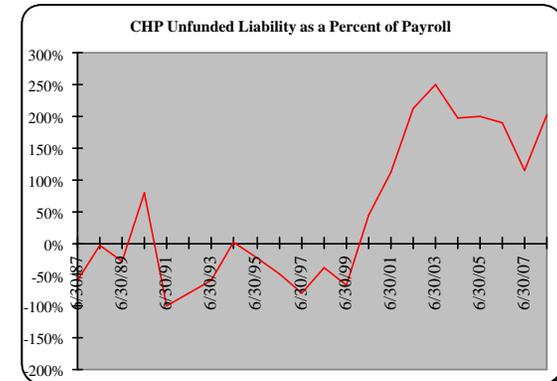
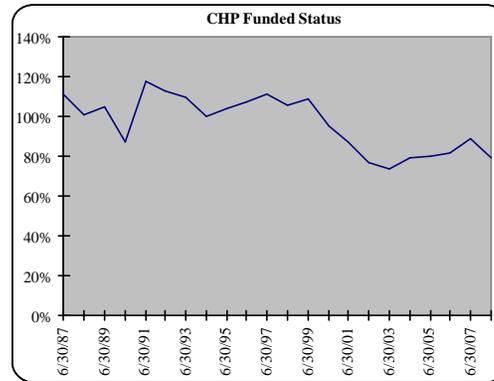
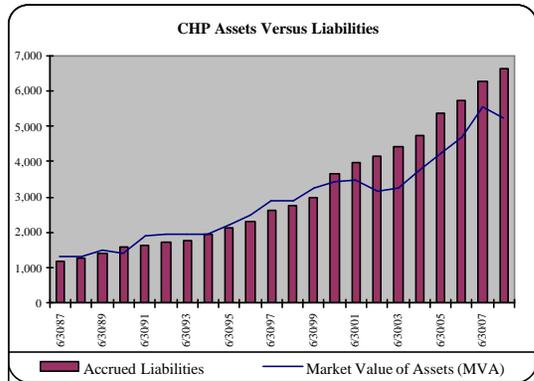
(Dollars in Millions)

Valuation Date	Actuarial Accrued Liabilities	Market Value of Assets (MVA)	Funded Status (MVA)	Unfunded Liabilities/ (Surplus) (MVA)	Projected Payroll for Contribution	Unfunded/ (Surplus) as a % of Payroll
6/30/87	\$2,046.60	\$1,902.78	93.0%	\$143.82	\$791.32	18.2%
6/30/88	2,323.22	\$2,060.31	88.7%	\$262.91	892.79	29.4%
6/30/89	2,664.98	\$2,594.85	97.4%	\$70.13	1,001.85	7.0%
6/30/90	3,439.63	\$2,585.12	75.2%	\$854.51	1,150.54	74.3%
6/30/91	3,773.05	\$3,854.02	102.1%	(\$80.97)	1,319.96	-6.1%
6/30/92	4,193.43	\$4,232.07	100.9%	(\$38.63)	1,332.15	-2.9%
6/30/93	4,475.70	\$4,867.29	108.7%	(\$391.58)	1,347.85	-29.1%
6/30/94	4,883.90	\$5,031.67	103.0%	(\$147.77)	1,504.71	-9.8%
6/30/95	5,552.00	\$5,892.10	106.1%	(\$340.10)	1,592.42	-21.4%
6/30/96	6,128.81	\$6,860.00	111.9%	(\$731.19)	1,653.57	-44.2%
6/30/97	6,494.67	\$8,435.81	129.9%	(\$1,941.14)	1,409.62	-137.7%
6/30/98	7,015.67	\$10,321.52	147.1%	(\$3,305.85)	1,540.44	-214.6%
6/30/99	8,091.24	\$11,684.90	144.4%	(\$3,593.66)	2,017.76	-178.1%
6/30/00	10,720.41	\$12,667.55	118.2%	(\$1,947.13)	2,227.34	-87.4%
6/30/01	11,949.04	\$11,574.35	96.9%	\$374.70	2,303.58	16.3%
6/30/02	12,826.58	\$10,731.13	83.7%	\$2,095.45	2,406.97	87.1%
6/30/03	14,219.50	\$11,037.85	77.6%	\$3,181.65	2,506.75	126.9%
6/30/04	15,668.42	\$12,998.58	83.0%	\$2,669.85	2,603.55	102.5%
6/30/05	17,753.24	\$14,984.69	84.4%	\$2,768.54	2,860.33	96.8%
6/30/06	19,737.05	\$16,972.81	86.0%	\$2,764.24	3,057.73	90.4%
6/30/07	22,249.94	\$20,538.69	92.3%	\$1,711.25	3,420.18	50.0%
6/30/08	24,004.31	\$19,734.05	82.2%	\$4,270.26	3,588.76	119.0%



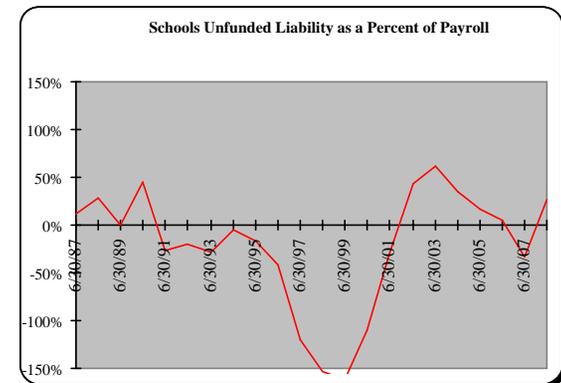
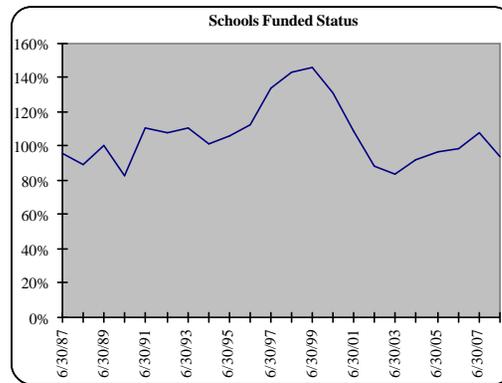
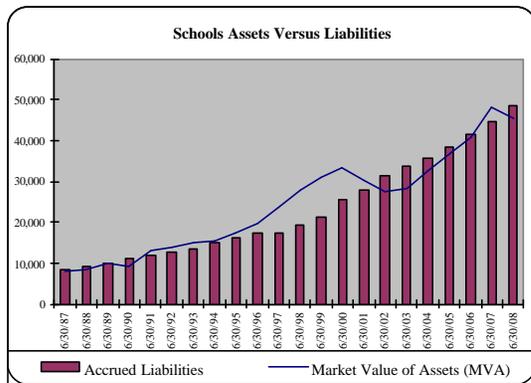
California Highway Patrol (Dollars in Millions)

Valuation Date	Actuarial Accrued Liabilities	Market Value of Assets (MVA)	Funded Status (MVA)	Unfunded Liabilities/ (Surplus) (MVA)	Projected Payroll for Contribution	Unfunded/ (Surplus) as a % of Payroll
6/30/87	\$1,196.54	\$1,325.90	110.8%	(\$129.35)	\$216.42	-59.8%
6/30/88	1,290.70	\$1,300.19	100.7%	(\$9.49)	226.20	-4.2%
6/30/89	1,414.86	\$1,483.64	104.9%	(\$68.79)	249.06	-27.6%
6/30/90	1,612.80	\$1,395.26	86.5%	\$217.54	271.01	80.3%
6/30/91	1,628.94	\$1,915.61	117.6%	(\$286.67)	287.52	-99.7%
6/30/92	1,732.68	\$1,956.27	112.9%	(\$223.60)	282.14	-79.2%
6/30/93	1,772.76	\$1,940.50	109.5%	(\$167.74)	278.84	-60.2%
6/30/94	1,970.53	\$1,968.32	99.9%	\$2.21	288.04	0.8%
6/30/95	2,133.61	\$2,206.59	103.4%	(\$72.98)	301.83	-24.2%
6/30/96	2,328.09	\$2,496.33	107.2%	(\$168.24)	343.47	-49.0%
6/30/97	2,620.57	\$2,911.76	111.1%	(\$291.18)	370.66	-78.6%
6/30/98	2,756.37	\$2,901.44	105.3%	(\$145.07)	366.98	-39.5%
6/30/99	2,983.40	\$3,249.25	108.9%	(\$265.84)	402.37	-66.1%
6/30/00	3,635.32	\$3,443.17	94.7%	\$192.15	433.10	44.4%
6/30/01	3,980.87	\$3,465.65	87.1%	\$515.22	455.09	113.2%
6/30/02	4,137.94	\$3,159.30	76.3%	\$978.64	461.05	212.3%
6/30/03	4,421.26	\$3,230.38	73.1%	\$1,190.87	475.73	250.3%
6/30/04	4,741.67	\$3,733.81	78.7%	\$1,007.86	508.61	198.2%
6/30/05	5,348.62	\$4,248.85	79.4%	\$1,099.77	546.14	201.4%
6/30/06	5,743.98	\$4,681.57	81.5%	\$1,062.41	556.30	191.0%
6/30/07	6,248.79	\$5,546.16	88.8%	\$702.63	613.03	114.6%
6/30/08	6,608.65	\$5,237.58	79.3%	\$1,371.08	674.69	203.2%



Schools
(Dollars in Millions)

Valuation Date	Actuarial Accrued Liabilities	Market Value of Assets (MVA)	Funded Status (MVA)	Unfunded Liabilities/ (Surplus) (MVA)	Projected Payroll for Contribution	Unfunded/ (Surplus) as a % of Payroll
6/30/87	\$8,582.66	\$8,173.59	95.2%	\$409.07	\$3,605.26	11.3%
6/30/88	9,395.40	\$8,341.39	88.8%	\$1,054.01	3,768.65	28.0%
6/30/89	9,941.35	\$9,925.64	99.8%	\$15.72	4,054.28	0.4%
6/30/90	11,249.14	\$9,297.76	82.7%	\$1,951.37	4,392.59	44.4%
6/30/91	12,002.48	\$13,300.78	110.8%	(\$1,298.30)	4,849.84	-26.8%
6/30/92	12,855.90	\$13,815.63	107.5%	(\$959.73)	4,882.78	-19.7%
6/30/93	13,575.13	\$14,955.70	110.2%	(\$1,380.57)	4,852.84	-28.4%
6/30/94	15,135.82	\$15,373.38	101.6%	(\$237.56)	5,140.41	-4.6%
6/30/95	16,421.90	\$17,314.37	105.4%	(\$892.46)	5,350.87	-16.7%
6/30/96	17,571.63	\$19,706.46	112.1%	(\$2,134.83)	5,145.78	-41.5%
6/30/97	17,583.43	\$23,499.15	133.6%	(\$5,915.72)	4,907.43	-120.5%
6/30/98	19,499.14	\$27,873.56	142.9%	(\$8,374.42)	5,444.66	-153.8%
6/30/99	21,216.00	\$30,917.57	145.7%	(\$9,701.57)	5,961.02	-162.8%
6/30/00	25,473.96	\$33,295.07	130.7%	(\$7,821.11)	7,052.94	-110.9%
6/30/01	27,946.43	\$30,307.55	108.4%	(\$2,361.12)	7,912.23	-29.8%
6/30/02	31,271.16	\$27,689.90	88.5%	\$3,581.27	8,344.24	42.9%
6/30/03	33,792.88	\$28,182.01	83.4%	\$5,610.86	9,079.11	61.8%
6/30/04	35,932.74	\$32,828.49	91.4%	\$3,104.24	9,068.75	34.2%
6/30/05	38,367.52	\$36,898.25	96.2%	\$1,469.27	9,222.78	15.9%
6/30/06	41,408.65	\$40,852.35	98.7%	\$556.31	9,880.89	5.6%
6/30/07	44,810.07	\$48,292.93	107.8%	(\$3,482.86)	10,249.83	-34.0%
6/30/08	48,537.68	\$45,547.90	93.8%	\$2,989.78	11,137.70	26.8%



Summary of Assets

- RECONCILIATION OF THE MARKET VALUE OF ASSETS OVER THE PRIOR FISCAL YEAR
- DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS
- ASSET ALLOCATION

Reconciliation of the Market Value of Assets Over the Prior Fiscal Year

	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
1. Market Value of Assets as of June 30, 2007 Including Receivables for Tier 1 Conversion and Service Buybacks	\$ 64,441,849,429	\$ 2,119,415,576	\$ 4,341,684,190	\$ 20,538,693,729	\$ 5,546,162,490	\$ 48,292,932,434
2. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2007	\$ 456,559,339	\$ 8,515,445	\$ 11,878,404	\$ 43,290,385	\$ 9,024,401	\$ 24,966,886
3. Market Value of Assets as of June 30, 2007	\$ 63,985,290,090	\$ 2,110,900,131	\$ 4,329,805,786	\$ 20,495,403,344	\$ 5,537,138,089	\$ 48,267,965,548
4. Contributions Received during fiscal year 2007-2008	2,143,320,443	103,905,788	419,886,273	1,115,285,249	267,314,355	1,735,876,302
5. Benefit Payments in 2007-2008	(3,328,511,557)	(86,808,265)	(171,082,148)	(862,137,117)	(292,268,414)	(1,960,005,696)
6. Refunds in 2007-2008	(12,061,681)	(505,178)	(2,401,700)	(8,654,838)	(845,846)	(71,855,177)
7. Investment Return	(3,280,805,368)	(108,559,381)	(228,177,656)	(1,055,595,472)	(285,529,592)	(2,453,531,791)
8. Market Value of Assets as of June 30, 2008 [(3) + (4) + (5) + (6) + (7)]	\$ 59,507,231,927	\$ 2,018,933,095	\$ 4,348,030,555	\$ 19,684,301,166	\$ 5,225,808,592	\$ 45,518,449,186
9. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2008	\$ 471,330,049	\$ 15,032,669	\$ 16,957,109	\$ 49,746,112	\$ 11,766,679	\$ 29,452,154
10. Market Value of Assets as of June 30, 2008 Including Receivables for Tier 1 Conversion and Service Buybacks	\$ 59,978,561,976	\$ 2,033,965,764	\$ 4,364,987,664	\$ 19,734,047,278	\$ 5,237,575,271	\$ 45,547,901,340

Development of the Actuarial Value of Assets

	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol	Schools
1. Actuarial Value of Assets as of June 30, 2007 Used for Rate Setting Purposes	\$ 55,292,471,146	\$ 1,834,282,395	\$ 3,755,415,584	\$ 17,783,348,566	\$ 4,773,722,312	\$ 41,578,619,239
2. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2007	\$ 456,559,339	\$ 8,515,445	\$ 11,878,404	\$ 43,290,385	\$ 9,024,401	\$ 24,966,886
3. Actuarial Value of Assets as of 6/30/07 (Prior to adjustments for Receivables for Tier 1 Conversion and Service Buybacks) [(1)-(2)]	\$ 54,835,911,807	\$ 1,825,766,950	\$ 3,743,537,180	\$ 17,740,058,181	\$ 4,764,697,911	\$ 41,553,652,353
4. Contributions Received during fiscal year 2007-2008	2,143,320,443	103,905,788	419,886,273	1,115,285,249	267,314,355	1,735,876,302
5. Benefit Payments in 2007-2008	(3,328,511,557)	(86,808,265)	(171,082,148)	(862,137,117)	(292,268,414)	(1,960,005,696)
6. Refunds in 2007-2008	(12,061,681)	(505,178)	(2,401,700)	(8,654,838)	(845,846)	(71,855,177)
7. Expected Investment Return during fiscal 2007-2008 [(3) x 0.0775 + [(4) + (5) + (6)] x ((1 + 0.0775)^.5-1)]	4,204,255,263	142,127,895	299,494,070	1,384,151,849	368,282,996	3,209,152,660
8. Expected Actuarial Value of Assets as of June 30, 2008 (Prior to Adjustment for Receivables) [(3) + (4) + (5) + (6) + (7)]	\$ 57,842,914,275	\$ 1,984,487,190	\$ 4,289,433,675	\$ 19,368,703,324	\$ 5,107,181,002	\$ 44,466,820,442
9. Market Value of Assets as of 6/30/08 (Prior to Adjustment for Receivables for Tier 1 Conversion and Service Buybacks)	\$ 59,507,231,927	\$ 2,018,933,095	\$ 4,348,030,555	\$ 19,684,301,166	\$ 5,225,808,592	\$ 45,518,449,186
10. Actuarial Value of Assets as of 6/30/08 [(8) + [(9) - (8)]/15, but not less than 80% or more than 120% of (9)]	\$ 57,953,868,785	\$ 1,986,783,584	\$ 4,293,340,134	\$ 19,389,743,180	\$ 5,115,089,508	\$ 44,536,929,025
11. Receivables for Tier 1 Conversion and Service Buybacks as of June 30, 2008	\$ 471,330,049	\$ 15,032,669	\$ 16,957,109	\$ 49,746,112	\$ 11,766,679	\$ 29,452,154
12. Actuarial Value of Assets as of June 30, 2008 Used for Rate Setting Purposes Only [(10) + (11)], Including Receivables	\$ 58,425,198,834	\$ 2,001,816,253	\$ 4,310,297,243	\$ 19,439,489,292	\$ 5,126,856,187	\$ 44,566,381,179

Asset Allocation

The asset allocation and market value of assets shown below are in respect of the Public Employees Retirement Fund (PERF) as a whole as of June 30, 2008. The assets of the State plans and Schools pool are part of the PERF and are invested accordingly.

Asset Class	Market Value (\$ Billion)	Current Allocation	Target ¹
Cash Equivalents	\$ 4.3	1.8%	0.0%
Global Fixed Income	\$ 59.9	25.3	19.0
Equities			
Domestic	\$ 73.9	31.2	28.0
International	48.5	20.4	28.0
Alt. Inv./Private Eq.	24.0	10.1	10.0
Total Equities	\$ 146.4	61.7	66.0
Inflation Linked (ILAC)	\$ 4.7	2.0	5.0
Total Real Estate	\$ 21.8	9.2	10.0
Total Fund	\$ 237.1 ²	100.0%	100.0%

¹ Target allocation effective January 1, 2008.

² Differences between investment values above and the values on the Summary of Investments on page 88 of the Comprehensive Annual Financial Report (Year Ended June 30, 2008) are due to differences in reporting methods. The Summary of Investments includes Net Investment Receivables/Payables.

SUMMARY OF PARTICIPANT DATA

- SOURCE OF THE PARTICIPANT DATA
- DATA VALIDATION TESTS AND ADJUSTMENTS
- DATA STATEMENT
- RECONCILIATION OF PARTICIPANTS
- DISTRIBUTION OF ACTIVE PARTICIPANTS AND AVERAGE MONTHLY SALARIES BY AGE AND SERVICE
- DISTRIBUTION BY AGE AND SERVICE OF TERMINATED PARTICIPANTS WITH FUNDS ON DEPOSIT AND TRANSFERS TO OTHER CALPERS PLANS
- SUMMARY OF RETIREES AND BENEFICIARIES

Source of the Participant Data

The data was extracted from various databases within CalPERS and placed in a data warehouse by a series of extract programs. Included in this data is:

- individual member and beneficiary information,
- employment and payroll information,
- accumulated contributions with interest,
- service information,
- benefit payment information,
- information about the various organizations which contract with CalPERS, and
- detailed information about the plan provisions applicable to each group of members.

Data Validation Tests and Adjustments

Once the information is extracted from the various computer systems into the data warehouse, update queries are then run against this data to correct for flaws found in the data. This part of the process is intended to validate the participant data for all CalPERS plans. It is not specific to the State and Schools plans.

The data for each of the State and Schools plans was then pulled into separate files. The data in these files was then checked for reasonableness and consistency with data from the prior valuation.

Checks on the data included:

- a reconciliation of the membership of the plans,
- comparisons of various member statistics (average attained age, average entry age, average salary, etc.) for each plan with those from the prior valuation
- pension amounts for each retiree and beneficiary receiving payments were compared with the pension amounts from the prior valuation
- checks for invalid ages and dates, and
- reasonableness checks on various key data elements such as service and salary.

As a result of the tests on the data, a number of adjustments were determined to be necessary. These included:

- dates of hire and dates of entry were adjusted where necessary to be consistent with the service fields, the date of birth and each other, and

- the annual earnings rate for most Schools members were overwritten with the annualized earnings based on their yearly contributions.

In addition, it is also known that records relating to pre-1984 State Safety retirees who were transferred to the State Peace Officers and Firefighters plan upon its creation have not had their records updated to reflect the transfer. In this valuation, as in prior valuations, this deficiency has been handled by adjusting the assets and liabilities rather than by trying to correct the data. The member counts and summary of retiree data have not been adjusted to correct for this deficiency.

Data Statement

The data does not contain information about reciprocal systems and hence salary information for terminated participants covered by reciprocal systems may not be up to date. This situation is not expected to have a material impact on the employer contribution rates since the total present value for all terminated participants represents less than 2% of the present value of benefits for all members.

We are unaware of any other data issues that would have a material effect on the results of this valuation.

It is our opinion that, after the adjustments noted above, the participant data was sufficient and reliable for the purposes of the valuation.

Reconciliation of Participants

For the Fiscal Year Ending June 30, 2008

State Miscellaneous Tier 1

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	146,503	22,094	37,896	142,923	349,416
Retirements	(4,559)	(968)	(465)	5,992	-
Industrial Disabilities	(3)	(29)	(9)	41	-
Ordinary Disabilities	(166)	(15)	(50)	231	-
Deaths ²	(250)	(39)	(78)	(5,138)	(5,505)
New Survivors	n/a	n/a	n/a	1,772	1,772
Non-vested Terminations ¹	(2,119)	(160)	2,280	(1)	-
Vested Terminations	(1,462)	(277)	1,742	(3)	-
Refunds of Contributions	(712)	(145)	(944)	-	(1,801)
Transfers	(2,153)	2,852	(619)	(80)	-
Redeposits/Rehires	1,951	(527)	(1,272)	(152)	-
First Year in Status	12,385	599	588	62	13,634
Moved from Tier 2	483	56	34	275	848
Data Corrections ³	(61)	(37)	(61)	(3,095)	(3,254)
As of June 30, 2008	149,837	23,404	39,042	142,827	355,110

State Miscellaneous Tier 2

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	9,292	12,992	2,084	4,058	28,426
Retirements	(15)	(47)	(50)	112	-
Industrial Disabilities	-	(1)	-	1	-
Ordinary Disabilities	(9)	(5)	(7)	21	-
Deaths ²	(27)	(19)	(16)	(79)	(141)
New Survivors	n/a	n/a	n/a	40	40
Non-vested Terminations ¹	(37)	(56)	93	-	-
Vested Terminations	(200)	(226)	426	-	-
Refunds of Contributions	(7)	(50)	(125)	(1)	(183)
Transfers	(288)	716	(422)	(6)	-
Redeposits/Rehires	162	(20)	(142)	-	-
First Year in Status	58	38	103	2	201
Moved to Tier 1	(483)	(56)	(34)	(275)	(848)
Data Corrections ³	199	(466)	(229)	243	(253)
As of June 30, 2008	8,645	12,800	1,681	4,116	27,242

¹ Includes non-vested terminated participants with employee contributions left in the plan.

² Includes both deaths without survivors and deaths with survivors receiving a benefit.

³ May include the combining of data records into a single record.

Reconciliation of Participants (Continued)

For the Fiscal Year Ending June 30, 2008

State Industrial

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	8,859	7,631	2,573	7,570	26,633
Retirements	(205)	(283)	(32)	520	-
Industrial Disabilities	(1)	(4)	(3)	8	-
Ordinary Disabilities	(19)	(1)	(6)	26	-
Deaths ²	(16)	(18)	(8)	(178)	(220)
New Survivors	n/a	n/a	n/a	283	283
Non-vested Terminations ¹	(61)	(22)	83	-	-
Vested Terminations	(89)	(84)	174	(1)	-
Refunds of Contributions	(38)	(28)	(58)	-	(124)
Transfers	(500)	640	(116)	(24)	-
Redeposits/Rehires	279	(200)	(65)	(14)	-
First Year in Status	1,826	165	68	11	2,070
Data Corrections ³	(25)	(217)	(38)	(263)	(543)
As of June 30, 2008	10,010	7,579	2,572	7,938	28,099

State Safety

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	22,852	4,222	3,458	14,074	44,606
Retirements	(557)	(205)	(50)	812	-
Industrial Disabilities	(49)	(15)	(17)	81	-
Ordinary Disabilities	(11)	(2)	(3)	16	-
Deaths ²	(36)	(10)	(14)	(406)	(466)
New Survivors	n/a	n/a	n/a	210	210
Non-vested Terminations ¹	(553)	(37)	590	-	-
Vested Terminations	(188)	(36)	224	-	-
Refunds of Contributions	(269)	(20)	(96)	-	(385)
Transfers	(550)	654	(87)	(17)	-
Redeposits/Rehires	377	(120)	(207)	(50)	-
First Year in Status	3,987	137	203	-	4,327
Data Corrections ³	(42)	(84)	(60)	(33)	(219)
As of June 30, 2008	24,961	4,484	3,941	14,687	48,073

¹ Includes non-vested terminated participants with employee contributions left in the plan.² Includes both deaths without survivors and deaths with survivors receiving a benefit.³ May include the combining of data records into a single record.

Reconciliation of Participants (Continued)

For the Fiscal Year Ending June 30, 2008

State Peace Officers and Firefighters

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	44,864	7,782	5,410	19,436	77,492
Retirements	(1,231)	(99)	(63)	1,393	-
Industrial Disabilities	(153)	(5)	(52)	210	-
Ordinary Disabilities	(7)	(1)	(8)	16	-
Deaths ²	(32)	(9)	(14)	(235)	(290)
New Survivors	n/a	n/a	n/a	194	194
Non-vested Terminations ¹	(456)	(45)	502	(1)	-
Vested Terminations	(231)	(58)	289	-	-
Refunds of Contributions	(170)	(24)	(190)	-	(384)
Transfers	(308)	520	(177)	(35)	-
Redeposits/Rehires	320	(77)	(223)	(20)	-
First Year in Status	4,654	367	228	39	5,288
Data Corrections ³	(110)	(2,656)	(92)	10	(2,848)
As of June 30, 2008	47,140	5,695	5,610	21,007	79,452

California Highway Patrol

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	6,926	319	312	7,169	14,726
Retirements	(219)	(18)	(9)	246	-
Industrial Disabilities	(32)	(2)	(1)	35	-
Ordinary Disabilities	-	-	(1)	1	-
Deaths ²	(7)	-	(2)	(157)	(166)
New Survivors	n/a	n/a	n/a	75	75
Non-vested Terminations ¹	(9)	-	10	(1)	-
Vested Terminations	(26)	(7)	33	-	-
Refunds of Contributions	(9)	(1)	(13)	-	(23)
Transfers	(13)	19	(5)	(1)	-
Redeposits/Rehires	15	(1)	(13)	(1)	-
First Year in Status	402	7	19	2	430
Data Corrections ³	(1)	-	-	(10)	(11)
As of June 30, 2008	7,027	316	330	7,358	15,031

¹ Includes non-vested terminated participants with employee contributions left in the plan.² Includes both deaths without survivors and deaths with survivors receiving a benefit.³ May include the combining of data records into a single record.

Reconciliation of Participants (Continued)

For the Fiscal Year Ending June 30, 2008

Schools

	Active	Transfer	Terminated	Receiving	Total
As of June 30, 2007	290,279	25,483	142,208	165,908	623,878
Retirements	(6,041)	(838)	(895)	7,774	-
Industrial Disabilities	-	(22)	-	22	-
Ordinary Disabilities	(173)	(10)	(62)	245	-
Deaths ²	(2,102)	(36)	(3,036)	(11,006)	(16,180)
New Survivors	n/a	n/a	n/a	8,189	8,189
Non-vested Terminations ¹	(11,914)	(443)	12,357	-	-
Vested Terminations	(3,255)	(430)	3,689	(4)	-
Refunds of Contributions	(3,446)	(228)	(4,602)	(1,004)	(9,280)
Transfers	(1,099)	2,159	(1,026)	(34)	-
Redeposits/Rehires	3,335	(529)	(2,736)	(70)	-
First Year in Status	31,813	907	6,678	258	39,656
Data Corrections ³	(119)	(170)	(245)	(9)	(543)
As of June 30, 2008	297,278	25,843	152,330	170,269	645,720

¹ Includes non-vested terminated participants with employee contributions left in the plan.

² Includes both deaths without survivors and deaths with survivors receiving a benefit.

³ May include the combining of data records into a single record.

Active Members

Distribution of Active Members By Age and Service

As of June 30, 2008

State Miscellaneous Tier 1

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	1,641	31	0	0	0	0	1,672	55,466,402
25-29	5,876	1,499	16	0	0	0	7,391	312,939,584
30-34	5,678	4,762	649	46	0	0	11,135	577,938,281
35-39	5,451	6,748	2,352	950	73	0	15,574	899,000,974
40-44	4,806	6,723	3,027	3,510	1,317	83	19,466	1,185,530,552
45-49	4,374	6,938	3,362	4,495	3,807	2,203	25,179	1,578,743,071
50-54	3,939	6,087	3,153	4,441	4,335	6,742	28,697	1,843,678,487
55-59	2,926	4,482	2,443	3,688	3,408	6,974	23,921	1,580,580,156
60-64	1,564	2,418	1,388	1,913	1,692	3,478	12,453	835,123,766
65 and Over	615	1,063	546	639	551	935	4,349	287,815,161
Total	36,870	40,751	16,936	19,682	15,183	20,415	149,837	\$ 9,156,816,433

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

State Miscellaneous Tier 1

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	33,048	39,848	0	0	0	0	\$33,174
25-29	41,199	46,642	58,783	0	0	0	42,341
30-34	48,002	55,056	61,657	69,324	0	0	51,903
35-39	51,399	58,899	65,502	65,233	73,164	0	57,724
40-44	50,669	59,405	66,392	69,080	70,408	77,927	60,903
45-49	50,762	59,045	66,467	68,442	70,089	67,690	62,701
50-54	51,038	58,504	65,071	68,899	70,355	69,770	64,246
55-59	52,001	59,105	65,055	68,988	71,913	72,424	66,075
60-64	51,259	58,425	65,831	69,313	72,324	76,866	67,062
65 and Over	43,954	57,128	64,326	71,031	78,748	81,449	66,180
Average	\$48,142	\$57,982	\$65,543	\$68,777	\$71,180	\$72,229	\$61,112

Distribution of Active Members By Age and Service

As of June 30, 2008

State Miscellaneous Tier 2

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	2	0	0	0	0	0	2	103,296
25-29	32	54	4	0	0	0	90	3,770,781
30-34	46	295	142	2	0	0	485	23,174,442
35-39	50	415	474	205	2	0	1,146	58,321,411
40-44	50	401	561	485	84	2	1,583	81,294,792
45-49	48	347	502	497	220	103	1,717	92,245,086
50-54	41	306	420	411	208	252	1,638	86,183,184
55-59	26	189	255	284	139	259	1,152	61,898,273
60-64	18	123	127	152	59	115	594	30,698,603
65 and Over	25	59	51	45	21	37	238	12,169,393
Total	338	2,189	2,536	2,081	733	768	8,645	\$ 449,859,262

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

State Miscellaneous Tier 2

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	51,648	0	0	0	0	0	\$51,648
25-29	43,651	40,269	49,860	0	0	0	41,898
30-34	47,601	47,443	48,569	46,203	0	0	47,782
35-39	39,677	48,687	52,681	53,753	70,951	0	50,891
40-44	45,542	48,911	50,032	54,735	55,520	63,119	51,355
45-49	48,883	50,114	53,008	56,476	55,459	54,656	53,725
50-54	37,344	47,040	51,675	53,869	55,051	59,379	52,615
55-59	45,989	49,028	52,756	52,480	56,474	58,801	53,731
60-64	38,018	46,097	49,318	52,428	55,173	59,625	51,681
65 and Over	37,772	44,264	52,337	56,201	56,533	60,219	51,132
Average	\$43,351	\$48,113	\$51,591	\$54,430	\$55,593	\$58,638	\$52,037

Distribution of Active Members By Age and Service

As of June 30, 2008

State Industrial

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	193	2	0	0	0	0	195	6,153,566
25-29	563	109	0	0	0	0	672	24,147,725
30-34	536	269	66	1	0	0	872	35,836,536
35-39	628	412	191	55	1	0	1,287	59,046,628
40-44	669	416	249	151	41	2	1,528	72,854,865
45-49	633	438	343	228	112	32	1,786	91,156,004
50-54	534	377	317	207	141	62	1,638	86,689,110
55-59	375	267	250	167	104	62	1,225	66,302,971
60-64	169	146	148	83	46	16	608	34,336,306
65 and Over	35	49	64	33	10	8	199	12,712,321
Total	4,335	2,485	1,628	925	455	182	10,010	\$ 489,236,032

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

State Industrial

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	31,472	39,756	0	0	0	0	\$31,557
25-29	35,412	38,632	0	0	0	0	35,934
30-34	39,605	42,692	46,832	33,418	0	0	41,097
35-39	44,821	44,942	49,413	52,523	56,004	0	45,879
40-44	44,784	47,465	50,074	54,207	58,349	51,461	47,680
45-49	49,428	48,552	50,164	55,736	60,345	60,303	51,039
50-54	53,111	48,593	52,075	55,012	59,077	61,017	52,924
55-59	56,142	49,480	52,511	55,985	55,448	61,203	54,125
60-64	54,764	51,120	60,502	58,575	60,779	62,869	56,474
65 and Over	55,401	53,845	81,255	62,757	52,375	42,479	63,881
Average	\$45,500	\$47,056	\$52,822	\$55,659	\$58,512	\$60,198	\$48,875

Distribution of Active Members By Age and Service

As of June 30, 2008

State Safety

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	462	4	0	0	0	0	466	20,556,150
25-29	1,331	104	0	0	0	0	1,435	75,164,254
30-34	1,763	281	30	0	0	0	2,074	131,444,776
35-39	2,050	500	170	16	0	0	2,736	187,946,658
40-44	2,099	598	391	95	9	0	3,192	218,105,747
45-49	2,163	772	605	276	97	9	3,922	274,851,266
50-54	2,101	927	829	433	178	62	4,530	336,231,269
55-59	1,582	767	700	339	156	66	3,610	284,181,815
60-64	780	470	452	259	88	40	2,089	174,094,784
65 and Over	274	252	205	110	53	13	907	92,482,261
Total	14,605	4,675	3,382	1,528	581	190	24,961	\$ 1,795,058,980

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

State Safety

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	44,080	47,801	0	0	0	0	\$44,112
25-29	52,518	50,600	0	0	0	0	52,379
30-34	64,339	57,483	62,105	0	0	0	63,377
35-39	68,970	68,554	66,444	61,638	0	0	68,694
40-44	67,756	68,328	71,980	65,161	76,860	0	68,329
45-49	68,090	74,855	72,514	68,263	66,775	66,185	70,079
50-54	71,892	73,999	77,595	78,623	74,410	80,242	74,223
55-59	75,703	79,712	84,543	77,971	77,800	83,810	78,721
60-64	76,539	87,113	91,254	82,092	85,046	86,450	83,339
65 and Over	90,333	113,547	115,249	92,529	82,029	74,258	101,965
Average	\$67,774	\$75,684	\$80,885	\$77,181	\$76,389	\$81,713	\$71,915

Distribution of Active Members By Age and Service

As of June 30, 2008

State Peace Officers and Firefighters

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	2,458	0	0	0	0	0	2,458	89,958,183
25-29	4,236	878	1	0	0	0	5,115	269,883,385
30-34	2,989	3,107	577	3	0	0	6,676	433,273,574
35-39	2,090	2,531	2,875	421	5	0	7,922	571,047,671
40-44	1,414	1,660	2,398	1,687	868	7	8,034	612,813,320
45-49	898	1,116	1,711	1,632	2,287	574	8,218	666,005,605
50-54	493	602	1,039	922	1,283	695	5,034	416,970,744
55-59	192	320	556	517	591	378	2,554	213,534,048
60-64	74	117	199	220	203	113	926	76,452,297
65 and Over	16	18	39	55	58	17	203	16,450,687
Total	14,860	10,349	9,395	5,457	5,295	1,784	47,140	\$ 3,366,389,513

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

State Peace Officers and Firefighters

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	36,598	0	0	0	0	0	\$36,598
25-29	49,292	69,479	80,904	0	0	0	52,763
30-34	54,397	72,608	77,709	82,845	0	0	64,900
35-39	57,822	73,869	79,435	81,708	92,395	0	72,084
40-44	59,203	74,297	79,156	82,199	88,289	92,532	76,277
45-49	62,607	75,591	79,063	82,163	88,291	94,318	81,042
50-54	65,804	77,318	79,783	82,108	87,820	95,989	82,831
55-59	71,444	77,856	80,492	82,972	86,897	94,964	83,608
60-64	70,357	77,992	78,724	83,032	87,949	91,452	82,562
65 and Over	70,983	78,172	77,469	79,430	85,668	91,132	81,038
Average	\$52,129	\$73,750	\$79,268	\$82,214	\$87,983	\$94,887	\$71,413

Distribution of Active Members By Age and Service

As of June 30, 2008

California Highway Patrol

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	174	0	0	0	0	0	174	12,381,051
25-29	514	180	0	0	0	0	694	53,871,724
30-34	394	716	200	1	0	0	1,311	109,559,144
35-39	195	596	768	123	0	0	1,682	146,379,214
40-44	23	92	474	442	249	0	1,280	118,541,264
45-49	0	0	88	280	461	320	1,149	115,717,971
50-54	0	2	37	53	166	365	623	64,607,795
55-59	0	0	9	7	18	80	114	11,829,332
60-64	0	0	0	0	0	0	0	0
65 and Over	0	0	0	0	0	0	0	0
Total	1,300	1,586	1,576	906	894	765	7,027	\$ 632,887,495

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Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

California Highway Patrol

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	71,155	0	0	0	0	0	\$71,155
25-29	74,621	86,204	0	0	0	0	77,625
30-34	76,121	86,302	88,424	90,322	0	0	83,569
35-39	77,434	86,219	89,560	90,335	0	0	87,027
40-44	81,686	86,175	88,889	95,314	98,282	0	92,610
45-49	0	0	91,632	93,558	102,536	106,841	100,712
50-54	0	100,814	94,520	96,521	101,790	106,565	103,704
55-59	0	0	107,153	97,246	99,256	104,970	103,766
60-64	0	0	0	0	0	0	0
65 and Over	0	0	0	0	0	0	0
Average	\$75,159	\$86,271	\$89,546	\$94,175	\$101,147	\$106,514	\$90,065

Distribution of Active Members By Age and Service

As of June 30, 2008

Schools

Attained Age	Years of Service at Valuation Date						Total	Payroll
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	12,064	79	0	0	0	0	12,143	245,478,181
25-29	17,870	3,445	4	0	0	0	21,319	592,327,369
30-34	14,762	8,917	93	1	0	0	23,773	783,609,935
35-39	15,666	12,666	194	34	2	0	28,562	973,512,349
40-44	18,976	18,406	275	100	22	0	37,779	1,310,682,826
45-49	19,833	27,486	365	148	83	46	47,961	1,739,248,938
50-54	17,153	33,733	514	195	143	126	51,864	1,964,030,782
55-59	11,836	29,585	515	190	126	119	42,371	1,667,879,611
60-64	5,982	16,405	281	110	67	70	22,915	888,718,894
65 and Over	3,007	5,403	87	39	18	37	8,591	282,084,804
Total	137,149	156,125	2,328	817	461	398	297,278	\$ 10,447,573,688

Counts of members included in the valuation are counts of the records processed by the valuation. Multiple records may exist for those who have service in more than one valuation group. This does not result in double counting of liabilities.

Distribution of Average Annual Salaries By Age and Service

As of June 30, 2008

Schools

Attained Age	Years of Service at Valuation Date						Average Salary
	0-4	5-9	10-14	15-19	20-25	25+	
15-24	20,093	39,013	0	0	0	0	\$20,216
25-29	25,838	37,849	50,571	0	0	0	27,784
30-34	28,014	40,933	54,247	27,907	0	0	32,962
35-39	26,541	42,996	58,150	51,336	54,148	0	34,084
40-44	25,435	43,601	68,201	56,113	51,515	0	34,693
45-49	25,271	43,517	69,555	54,769	67,252	62,133	36,264
50-54	24,992	43,683	68,686	57,139	53,311	61,175	37,869
55-59	24,988	44,299	72,536	54,400	52,823	60,336	39,364
60-64	24,117	43,348	69,267	53,441	56,184	60,328	38,783
65 and Over	18,951	40,040	47,148	47,492	45,484	53,832	32,835
Average	\$25,104	\$43,256	\$67,396	\$54,711	\$55,717	\$60,203	\$35,144

Terminated and Transferred Participants

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

State Miscellaneous Tier 1

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	294	1	0	0	0	0	295	59,577
25-29	1,410	83	0	0	0	0	1,493	59,355
30-34	1,760	295	11	1	0	0	2,067	62,280
35-39	1,658	550	145	12	1	0	2,366	65,232
40-44	1,603	677	336	154	24	1	2,795	67,495
45-49	2,054	857	475	338	160	39	3,923	70,788
50-54	2,116	910	560	393	247	148	4,374	72,434
55-59	1,788	751	450	302	173	163	3,627	73,713
60-64	932	372	210	134	77	76	1,801	73,590
65 and Over	390	127	62	58	18	8	663	79,047
Total	14,005	4,623	2,249	1,392	700	435	23,404	69,421

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

State Miscellaneous Tier 1

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	497	0	0	0	0	0	497	25,242
25-29	3,218	89	1	0	0	0	3,308	30,637
30-34	4,179	534	26	2	0	0	4,741	38,042
35-39	4,118	870	161	26	0	0	5,175	42,876
40-44	3,646	1,176	457	143	8	0	5,430	45,419
45-49	3,661	1,321	614	308	125	26	6,055	44,955
50-54	3,335	1,324	586	284	122	53	5,704	43,660
55-59	2,771	981	376	153	63	23	4,367	42,058
60-64	1,724	481	175	68	22	12	2,482	40,987
65 and Over	1,043	156	54	14	7	9	1,283	36,120
Total	28,192	6,932	2,450	998	347	123	39,042	41,384

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

State Miscellaneous Tier 2

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	1	0	0	0	0	0	1	42,444
25-29	141	14	0	0	0	0	155	48,923
30-34	812	124	15	0	0	0	951	57,931
35-39	1,410	622	117	9	0	0	2,158	61,153
40-44	1,374	821	393	55	3	0	2,646	61,575
45-49	1,309	620	461	157	54	4	2,605	60,613
50-54	950	442	375	178	154	29	2,128	62,621
55-59	575	287	216	91	107	99	1,375	62,735
60-64	276	128	85	38	29	29	585	59,755
65 and Over	108	40	24	7	5	12	196	63,021
Total	6,956	3,098	1,686	535	352	173	12,800	61,120

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

State Miscellaneous Tier 2

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0
30-34	0	0	5	0	0	0	5	31,141
35-39	0	0	94	5	0	0	99	32,472
40-44	0	0	238	27	0	0	265	33,178
45-49	0	0	307	89	18	5	419	32,618
50-54	0	0	301	92	34	5	432	32,978
55-59	0	0	219	77	21	5	322	32,275
60-64	0	0	70	28	5	5	108	32,560
65 and Over	0	0	17	9	5	0	31	33,481
Total	0	0	1,251	327	83	20	1,681	32,569

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

State Industrial

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	26	0	0	0	0	0	26	40,211
25-29	187	14	0	0	0	0	201	47,491
30-34	410	72	5	0	0	0	487	53,917
35-39	692	198	42	3	0	0	935	57,035
40-44	851	296	81	18	3	0	1,249	61,106
45-49	968	316	116	35	3	1	1,439	63,850
50-54	1,044	343	133	51	21	4	1,596	66,761
55-59	697	210	86	39	15	4	1,051	69,643
60-64	290	89	39	11	5	2	436	74,874
65 and Over	94	45	11	8	1	0	159	101,014
Total	5,259	1,583	513	165	48	11	7,579	64,234

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

State Industrial

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	13	0	0	0	0	0	13	28,294
25-29	110	6	0	0	0	0	116	29,487
30-34	212	34	1	0	0	0	247	32,238
35-39	321	61	15	1	0	0	398	34,530
40-44	349	80	33	4	0	0	466	35,862
45-49	290	84	26	9	3	0	412	37,312
50-54	272	67	20	4	3	1	367	36,969
55-59	178	52	8	0	4	0	242	36,540
60-64	131	15	4	2	1	0	153	38,864
65 and Over	140	17	1	0	0	0	158	40,363
Total	2,016	416	108	20	11	1	2,572	35,891

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

State Safety

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	21	0	0	0	0	0	21	50,938
25-29	151	3	0	0	0	0	154	50,126
30-34	247	26	0	0	0	0	273	55,062
35-39	371	53	6	0	0	0	430	61,235
40-44	459	78	29	10	0	0	576	65,145
45-49	690	147	42	26	3	0	908	75,580
50-54	753	155	62	29	9	6	1,014	77,571
55-59	531	98	35	15	7	3	689	75,598
60-64	224	59	15	3	1	1	303	77,028
65 and Over	97	13	5	1	0	0	116	113,074
Total	3,544	632	194	84	20	10	4,484	72,146

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

State Safety

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	44	0	0	0	0	0	44	36,253
25-29	226	3	0	0	0	0	229	41,137
30-34	315	20	1	0	0	0	336	48,208
35-39	477	67	10	0	0	0	554	52,737
40-44	481	66	13	3	0	0	563	56,118
45-49	554	100	26	13	1	1	695	52,349
50-54	535	95	25	5	0	0	660	52,948
55-59	394	53	10	5	0	0	462	54,731
60-64	232	23	6	1	0	0	262	57,669
65 and Over	128	5	2	1	0	0	136	61,370
Total	3,386	432	93	28	1	1	3,941	52,802

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

State Peace Officers and Fire Fighters

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	124	0	0	0	0	0	124	51,996
25-29	613	4	0	0	0	0	617	65,678
30-34	766	57	5	0	0	0	828	72,423
35-39	893	127	18	1	0	0	1,039	75,165
40-44	774	140	57	11	4	0	986	79,868
45-49	713	153	66	22	6	0	960	79,464
50-54	404	117	69	25	10	2	627	80,093
55-59	220	76	37	11	7	12	363	78,750
60-64	62	25	10	6	0	12	115	77,872
65 and Over	26	4	2	0	2	2	36	77,555
Total	4,595	703	264	76	29	28	5,695	75,614

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

State Peace Officers and Firefighters

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	321	0	0	0	0	0	321	33,501
25-29	942	7	0	0	0	0	949	35,477
30-34	878	68	3	0	0	0	949	37,512
35-39	820	134	30	3	0	0	987	38,511
40-44	669	150	56	29	4	0	908	40,346
45-49	491	159	91	45	30	4	820	45,253
50-54	257	71	38	12	7	1	386	39,789
55-59	144	34	14	6	2	0	200	39,453
60-64	51	9	5	4	0	1	70	39,257
65 and Over	19	0	0	1	0	0	20	29,058
Total	4,592	632	237	100	43	6	5,610	38,922

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

California Highway Patrol

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	0	0	0	0	0	0	0	0
25-29	17	3	0	0	0	0	20	76,546
30-34	39	10	2	0	0	0	51	71,089
35-39	50	11	8	1	0	0	70	76,127
40-44	39	9	5	3	0	0	56	76,884
45-49	31	13	13	2	0	0	59	78,886
50-54	28	7	2	1	0	0	38	83,507
55-59	6	2	4	0	0	0	12	86,365
60-64	3	2	2	1	1	0	9	85,035
65 and Over	0	1	0	0	0	0	1	58,236
Total	213	58	36	8	1	0	316	77,463

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

California Highway Patrol

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	1	0	0	0	0	0	1	68,780
25-29	7	0	0	0	0	0	7	63,653
30-34	33	16	1	0	0	0	50	63,728
35-39	44	21	13	1	0	0	79	61,229
40-44	39	18	11	15	1	0	84	57,183
45-49	15	27	13	3	3	2	63	60,459
50-54	10	9	9	1	0	1	30	50,074
55-59	5	5	1	0	1	0	12	47,326
60-64	1	1	0	0	0	0	2	47,016
65 and Over	0	2	0	0	0	0	2	68,548
Total	155	99	48	20	5	3	330	58,944

Distributions By Age and Service

Transfers to Other CalPERS Plans

As of June 30, 2008

Schools

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	181	0	0	0	0	0	181	38,292
25-29	1,216	25	0	0	0	0	1,241	48,393
30-34	2,126	102	0	0	0	0	2,228	52,811
35-39	2,473	259	17	0	0	0	2,749	56,456
40-44	2,715	377	82	5	0	0	3,179	57,747
45-49	3,739	499	146	47	6	0	4,437	58,465
50-54	4,268	615	183	63	28	0	5,157	58,904
55-59	3,576	586	190	54	13	3	4,422	60,373
60-64	1,400	254	77	19	8	6	1,764	57,681
65 and Over	370	76	27	11	1	0	485	48,597
Total	22,064	2,793	722	199	56	9	25,843	57,037

Distributions By Age and Service

Terminated Participants With Funds on Deposit

As of June 30, 2008

Schools

Attained Age	Years of Service at Valuation Date						Total	Average Salary
	0-4	5-9	10-14	15-19	20-25	25+		
15-24	4,093	3	0	0	0	0	4,096	26,557
25-29	16,125	184	0	0	0	0	16,309	28,975
30-34	19,236	551	2	0	0	0	19,789	30,573
35-39	17,851	1,127	67	2	0	0	19,047	30,783
40-44	16,686	1,605	296	22	4	1	18,614	30,722
45-49	18,636	2,112	590	187	31	0	21,556	30,940
50-54	18,625	2,489	732	264	94	9	22,213	31,048
55-59	13,727	1,885	578	154	51	10	16,405	30,199
60-64	7,552	1,042	272	72	28	7	8,973	29,244
65 and Over	4,741	433	102	31	13	8	5,328	27,056
Total	137,272	11,431	2,639	732	221	35	152,330	30,218

Retired Members and Beneficiaries

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

State Miscellaneous Tier 1

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	2	0	7	6	190	205
30-34	0	11	7	2	2	95	117
35-39	0	51	21	4	1	111	188
40-44	1	186	94	19	4	189	493
45-49	1	679	243	42	12	318	1,295
50-54	2,114	1,369	358	102	6	516	4,465
55-59	10,642	1,953	424	198	4	838	14,059
60-64	18,777	1,873	356	235	6	1,199	22,446
65-69	20,166	1,593	278	246	9	1,696	23,988
70-74	16,802	1,122	192	253	8	2,378	20,755
75-79	14,677	735	109	250	5	3,345	19,121
80-84	12,047	584	57	223	1	4,349	17,261
85 and Over	11,555	502	28	169	6	6,058	18,318
Total	106,782	10,660	2,167	1,750	70	21,282	142,711

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 1

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$7,409	\$0	\$36,736	\$409	\$1,260,215	\$1,304,769
30-34	0	73,039	1,365	56,992	23,323	667,685	822,404
35-39	0	386,385	71,987	60,282	37	1,121,680	1,640,371
40-44	13,006	1,840,462	152,216	290,077	140	1,955,358	4,251,259
45-49	12,668	7,716,521	556,899	809,816	154,088	3,325,818	12,575,810
50-54	23,642,547	18,412,918	838,357	2,020,184	3,986	7,109,188	52,027,180
55-59	248,330,682	26,883,954	1,140,286	4,528,199	83,365	13,917,116	294,883,602
60-64	522,517,053	25,682,407	1,226,802	5,473,069	1,435	25,251,646	580,152,412
65-69	592,879,784	23,406,887	1,210,527	6,033,726	27,485	38,897,976	662,456,385
70-74	474,832,278	15,510,512	544,366	6,730,749	37,044	54,843,532	552,498,481
75-79	401,737,560	9,327,934	336,730	6,378,119	6,138	73,110,417	490,896,898
80-84	289,070,682	7,251,671	143,446	5,466,249	633	82,090,896	384,023,577
85 and Over	226,255,959	5,877,450	45,189	4,165,179	66,358	92,113,826	328,523,961
Total	\$2,779,292,219	\$142,377,549	\$6,268,170	\$42,049,377	\$404,441	\$395,665,353	\$3,366,057,109

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

State Miscellaneous Tier 1

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	32,030	1,703	362	319	6	770	35,190
5-9	23,757	2,518	534	308	7	1,414	28,538
10-14	15,999	2,334	410	267	16	2,172	21,198
15-19	14,837	1,566	441	257	8	3,421	20,530
20-24	10,614	994	193	264	14	4,445	16,524
25-29	6,646	822	150	234	5	4,586	12,443
30 and Over	3,011	723	77	101	14	4,474	8,400
Total	106,894	10,660	2,167	1,750	70	21,282	142,823

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 1

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$928,342,509	\$24,682,573	\$1,934,313	\$6,540,445	\$3,372	\$14,570,796	\$976,074,008
5-9	712,533,817	36,096,262	2,052,764	8,267,245	3,506	32,954,077	791,907,671
10-14	403,890,144	32,519,898	1,082,261	7,361,982	275,066	52,832,238	497,961,589
15-19	393,017,449	21,299,854	790,089	6,823,773	3,912	89,583,192	511,518,269
20-24	205,125,757	11,407,244	242,519	6,314,231	45,047	90,559,141	313,693,939
25-29	97,872,227	8,411,954	111,665	4,638,642	1,672	63,189,197	174,225,357
30 and Over	40,211,313	7,959,764	54,559	2,103,059	71,866	51,976,712	102,377,273
Total	\$2,780,993,216	\$142,377,549	\$6,268,170	\$42,049,377	\$404,441	\$395,665,353	\$3,367,758,106

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

State Miscellaneous Tier 2

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	0	2	0	29	31
30-34	0	1	0	0	0	9	10
35-39	0	7	4	0	0	13	24
40-44	0	33	8	1	0	21	63
45-49	0	141	10	10	0	36	197
50-54	51	266	12	11	0	51	391
55-59	283	337	11	19	2	73	725
60-64	429	287	12	14	0	90	832
65-69	446	165	6	10	0	62	689
70-74	459	87	2	9	0	59	616
75-79	287	25	1	4	0	42	359
80-84	88	4	0	4	0	28	124
85 and Over	33	2	0	2	0	12	49
Total	2,076	1,355	66	86	2	525	4,110

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 2

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$0	\$0	\$8,124	\$0	\$158,202	\$166,326
30-34	0	6,346	0	0	0	50,213	56,559
35-39	0	83,704	90,352	0	0	71,020	245,076
40-44	0	322,547	171,678	7,188	0	163,066	664,479
45-49	0	1,574,946	205,907	82,668	0	343,279	2,206,800
50-54	145,044	3,136,830	194,525	64,958	0	475,301	4,016,658
55-59	1,087,764	4,440,662	185,248	167,017	41,924	803,492	6,726,107
60-64	2,107,080	3,705,228	204,727	144,967	0	940,693	7,102,695
65-69	3,120,790	2,324,349	59,709	74,907	0	561,616	6,141,371
70-74	3,780,580	1,122,232	43,439	135,583	0	666,016	5,747,850
75-79	3,027,101	344,349	27,951	113,318	0	494,176	4,006,895
80-84	871,447	62,461	0	104,426	0	297,353	1,335,687
85 and Over	315,028	5,025	0	54,566	0	75,147	449,766
Total	\$14,454,834	\$17,128,679	\$1,183,536	\$957,722	\$41,924	\$5,099,574	\$38,866,269

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

State Miscellaneous Tier 2

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	452	136	8	36	0	38	670
5-9	651	450	26	19	0	131	1,277
10-14	690	447	21	18	2	186	1,364
15-19	227	247	11	7	0	116	608
20-24	62	75	0	6	0	54	197
25-29	0	0	0	0	0	0	0
30 and Over	0	0	0	0	0	0	0
Total	2,082	1,355	66	86	2	525	4,116

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Miscellaneous Tier 2

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$2,223,607	\$1,309,729	\$135,378	\$270,035	\$0	\$265,472	\$4,204,221
5-9	3,477,154	4,999,848	389,960	156,384	0	966,309	9,989,655
10-14	6,399,952	6,210,057	412,434	345,320	41,924	2,126,800	15,536,487
15-19	1,956,201	3,713,916	245,764	118,191	0	1,268,532	7,302,604
20-24	436,226	895,129	0	67,792	0	472,461	1,871,608
25-29	0	0	0	0	0	0	0
30 and Over	0	0	0	0	0	0	0
Total	\$14,493,140	\$17,128,679	\$1,183,536	\$957,722	\$41,924	\$5,099,574	\$38,904,575

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

State Industrial

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	1	1	0	17	19
30-34	0	0	0	0	0	10	10
35-39	0	12	9	0	0	4	25
40-44	0	40	11	1	0	10	62
45-49	1	87	55	6	0	18	167
50-54	225	172	67	5	0	38	507
55-59	938	216	74	8	0	55	1,291
60-64	1,387	203	62	12	1	66	1,731
65-69	1,064	133	42	15	2	74	1,330
70-74	826	75	27	9	3	84	1,024
75-79	556	41	17	7	2	95	718
80-84	386	24	9	5	8	138	570
85 and Over	294	11	10	1	4	158	478
Total	5,677	1,014	384	70	20	767	7,932

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Industrial

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$0	\$60	\$2,330	\$0	\$40,502	\$42,892
30-34	0	0	0	0	0	37,481	37,481
35-39	0	44,302	92,145	0	0	13,467	149,914
40-44	0	311,202	71,326	7,797	0	26,310	416,635
45-49	4,747	657,410	159,885	13,826	0	83,867	919,735
50-54	1,253,300	1,255,062	284,396	54,326	0	264,414	3,111,498
55-59	9,380,406	1,550,557	391,528	47,739	0	390,128	11,760,358
60-64	15,447,034	1,688,745	351,544	111,911	16,466	486,755	18,102,455
65-69	12,990,498	1,054,108	260,365	246,976	1,347	571,365	15,124,659
70-74	10,746,281	676,028	166,362	177,843	61,991	955,472	12,783,977
75-79	7,908,618	563,922	140,860	67,666	71,023	1,107,271	9,859,360
80-84	5,757,573	278,472	175,778	132,443	247,733	1,901,721	8,493,720
85 and Over	4,951,994	145,662	303,512	5,155	93,152	2,198,152	7,697,627
Total	\$68,440,451	\$8,225,470	\$2,397,761	\$868,012	\$491,712	\$8,076,905	\$88,500,311

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

State Industrial

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	2,406	222	98	20	0	64	2,810
5-9	1,489	371	119	15	0	99	2,093
10-14	773	197	71	16	1	117	1,175
15-19	481	145	46	13	0	141	826
20-24	292	45	22	4	1	104	468
25-29	199	26	15	2	2	130	374
30 and Over	43	8	13	0	16	112	192
Total	5,683	1,014	384	70	20	767	7,938

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Industrial

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$28,976,051	\$1,827,520	\$682,232	\$167,756	\$0	\$426,432	\$32,079,991
5-9	18,173,584	3,153,824	550,563	173,079	0	977,232	23,028,282
10-14	7,997,448	1,423,253	307,374	184,255	66	804,576	10,716,972
15-19	6,458,655	1,038,349	294,992	220,386	0	1,698,117	9,710,499
20-24	3,893,039	408,440	104,081	28,929	1,281	1,607,641	6,043,411
25-29	2,478,649	251,028	167,984	93,607	75,881	1,373,547	4,440,696
30 and Over	486,704	123,056	290,535	0	414,484	1,189,360	2,504,139
Total	\$68,464,130	\$8,225,470	\$2,397,761	\$868,012	\$491,712	\$8,076,905	\$88,523,990

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

State Safety

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	5	3	2	20	30
30-34	0	1	9	0	0	9	19
35-39	0	1	41	0	0	14	56
40-44	0	14	85	3	1	14	117
45-49	1	37	192	10	3	28	271
50-54	424	65	405	26	9	76	1,005
55-59	1,454	103	708	42	10	108	2,425
60-64	2,004	115	696	27	12	180	3,034
65-69	1,680	85	494	21	13	200	2,493
70-74	1,123	40	335	23	16	250	1,787
75-79	713	36	258	10	17	368	1,402
80-84	516	26	149	14	14	398	1,117
85 and Over	384	14	84	7	9	428	926
Total	8,299	537	3,461	186	106	2,093	14,682

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Safety

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$0	\$89,824	\$42,787	\$19,842	\$181,572	\$334,025
30-34	0	3,964	182,478	0	0	49,100	235,542
35-39	0	1,402	854,161	0	0	100,165	955,728
40-44	0	68,125	1,852,592	28,969	41,099	126,872	2,117,657
45-49	45,279	228,054	3,584,661	109,672	28,700	218,691	4,215,057
50-54	3,151,633	454,681	7,445,462	345,810	265,784	1,087,445	12,750,815
55-59	21,273,912	710,856	13,736,519	607,223	192,003	1,310,213	37,830,726
60-64	29,316,907	916,924	13,744,013	308,812	218,916	2,480,651	46,986,223
65-69	24,710,914	874,202	10,599,398	238,744	316,755	2,483,041	39,223,054
70-74	15,562,519	403,292	7,812,031	448,746	344,115	3,122,079	27,692,782
75-79	9,835,221	434,174	5,887,014	180,977	382,597	4,997,337	21,717,320
80-84	9,163,616	315,038	3,448,387	226,884	323,901	5,279,533	18,757,359
85 and Over	7,100,650	191,951	2,002,509	80,904	209,380	5,712,365	15,297,759
Total	\$120,160,651	\$4,602,663	\$71,239,049	\$2,619,528	\$2,343,092	\$27,149,064	\$228,114,047

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

State Safety

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	3,856	139	696	74	4	121	4,890
5-9	2,177	173	782	37	11	196	3,376
10-14	911	103	427	32	3	188	1,664
15-19	447	52	381	14	7	178	1,079
20-24	335	12	343	10	13	242	955
25-29	450	37	583	15	28	647	1,760
30 and Over	128	21	249	4	40	521	963
Total	8,304	537	3,461	186	106	2,093	14,687

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Safety

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$60,839,441	\$1,577,831	\$15,725,276	\$958,013	\$66,196	\$1,647,257	\$80,814,014
5-9	28,890,420	1,491,591	16,534,572	437,565	169,607	2,604,887	50,128,642
10-14	9,208,006	603,023	8,469,219	509,711	102,335	1,977,365	20,869,659
15-19	5,169,690	264,184	7,175,161	211,141	121,777	2,349,596	15,291,549
20-24	4,839,659	40,465	6,485,256	157,974	254,235	3,654,560	15,432,149
25-29	8,797,009	453,491	11,638,495	304,796	603,428	8,827,034	30,624,253
30 and Over	2,441,735	172,078	5,211,070	40,328	1,025,514	6,088,365	14,979,090
Total	\$120,185,960	\$4,602,663	\$71,239,049	\$2,619,528	\$2,343,092	\$27,149,064	\$228,139,356

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

State Peace Officers and Firefighters

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	7	5	9	41	62
30-34	0	0	71	0	2	9	82
35-39	0	8	289	1	3	17	318
40-44	0	31	616	4	18	18	687
45-49	0	58	1,146	16	19	50	1,289
50-54	1,656	65	1,234	24	15	108	3,102
55-59	3,004	76	1,360	45	23	156	4,664
60-64	3,117	76	1,169	35	20	201	4,618
65-69	2,031	39	635	24	11	217	2,957
70-74	1,144	26	291	15	6	216	1,698
75-79	684	14	123	2	3	152	978
80-84	294	6	45	3	0	96	444
85 and Over	55	1	6	0	0	25	87
Total	11,985	400	6,992	174	129	1,306	20,986

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Peace Officers and Firefighters

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$0	\$182,403	\$53,710	\$143,493	\$467,140	\$846,746
30-34	0	0	1,934,670	0	71,447	139,090	2,145,207
35-39	0	81,294	7,863,612	29,358	86,527	336,583	8,397,374
40-44	0	402,173	17,375,494	133,798	566,867	296,986	18,775,318
45-49	0	887,751	32,730,842	657,053	597,448	983,531	35,856,625
50-54	94,662,879	994,966	37,907,425	708,050	477,842	2,616,122	137,367,284
55-59	156,507,069	1,562,939	47,601,010	1,478,416	859,277	4,952,779	212,961,490
60-64	146,460,734	1,503,036	42,073,547	1,337,809	618,875	6,067,984	198,061,985
65-69	84,663,432	899,985	21,740,137	782,439	276,968	7,136,508	115,499,469
70-74	43,084,707	693,894	9,714,698	410,802	213,336	6,347,525	60,464,962
75-79	23,670,833	313,343	3,875,452	57,403	133,799	4,540,419	32,591,249
80-84	9,264,046	144,126	1,427,683	100,613	0	2,411,608	13,348,076
85 and Over	1,612,216	8,586	157,659	0	0	630,029	2,408,490
Total	\$559,925,916	\$7,492,093	\$224,584,632	\$5,749,451	\$4,045,879	\$36,926,304	\$838,724,275

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

State Peace Officers and Firefighters

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	5,757	101	1,534	66	32	95	7,585
5-9	3,154	140	2,251	42	36	236	5,859
10-14	1,480	95	1,446	43	22	228	3,314
15-19	945	47	1,188	18	13	335	2,546
20-24	668	16	572	5	26	409	1,696
25-29	0	0	1	0	0	2	3
30 and Over	0	1	0	0	0	1	2
Total	12,004	400	6,992	174	129	1,306	21,005

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

State Peace Officers and Firefighters

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$303,592,070	\$2,242,523	\$58,865,245	\$2,186,275	\$899,514	\$2,887,710	\$370,673,337
5-9	142,955,196	2,544,658	74,227,393	1,467,373	1,273,452	7,465,920	229,933,992
10-14	53,949,986	1,659,293	44,294,936	1,445,231	737,932	6,435,671	108,523,049
15-19	37,956,811	714,535	33,519,402	490,416	443,739	9,796,331	82,921,234
20-24	21,787,547	330,406	13,677,586	160,156	691,242	10,320,963	46,967,900
25-29	0	0	70	0	0	7,130	7,200
30 and Over	0	678	0	0	0	12,579	13,257
Total	\$560,241,610	\$7,492,093	\$224,584,632	\$5,749,451	\$4,045,879	\$36,926,304	\$839,039,969

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

California Highway Patrol

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	0	1	0	9	6	16
30-34	0	0	7	0	1	5	13
35-39	0	2	30	0	5	4	41
40-44	0	1	95	1	8	2	107
45-49	0	4	203	1	20	13	241
50-54	352	6	294	3	7	17	679
55-59	417	4	411	9	10	54	905
60-64	581	6	793	5	21	100	1,506
65-69	527	9	810	4	18	130	1,498
70-74	268	4	498	1	17	157	945
75-79	169	6	301	3	5	161	645
80-84	136	1	135	0	6	152	430
85 and Over	83	0	49	2	8	180	322
Total	2,533	43	3,627	29	135	981	7,348

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

California Highway Patrol

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$0	\$10,618	\$0	\$148,994	\$60,176	\$219,788
30-34	0	0	265,723	0	41,252	30,158	337,133
35-39	0	31,193	1,106,493	0	304,738	6,709	1,449,133
40-44	0	7,505	3,119,891	30,694	459,119	55,088	3,672,297
45-49	0	74,075	6,161,194	30,453	1,070,928	446,135	7,782,785
50-54	26,848,130	88,140	12,200,201	228,259	371,833	582,409	40,318,972
55-59	27,978,513	90,001	20,505,082	467,176	355,460	1,421,200	50,817,432
60-64	31,418,646	194,159	40,035,238	260,986	475,413	2,531,333	74,915,775
65-69	22,886,708	124,043	30,753,692	135,095	496,621	3,290,155	57,686,314
70-74	9,716,900	66,421	17,473,812	27,483	386,910	3,753,684	31,425,210
75-79	5,698,013	136,907	10,127,485	58,024	116,813	3,357,169	19,494,411
80-84	4,243,849	21,236	4,031,314	0	143,596	2,911,100	11,351,095
85 and Over	2,770,372	0	1,548,116	51,973	188,172	3,071,432	7,630,065
Total	\$131,561,131	\$833,680	\$147,338,859	\$1,290,143	\$4,559,849	\$21,516,748	\$307,100,410

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

California Highway Patrol

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	879	6	423	5	18	16	1,347
5-9	571	7	702	10	10	42	1,342
10-14	477	9	595	4	16	57	1,158
15-19	227	5	607	3	11	100	953
20-24	157	4	462	2	11	151	787
25-29	154	4	470	3	16	199	846
30 and Over	78	8	368	2	53	416	925
Total	2,543	43	3,627	29	135	981	7,358

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Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

California Highway Patrol

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$61,053,998	\$210,441	\$27,479,709	\$268,463	\$902,442	\$781,195	\$90,696,248
5-9	29,755,331	161,701	40,847,505	613,816	399,838	1,435,731	73,213,922
10-14	20,482,975	172,376	25,181,263	159,460	712,525	2,281,048	48,989,647
15-19	8,072,481	44,211	21,266,581	94,733	507,935	2,933,909	32,919,850
20-24	5,271,121	100,354	13,261,911	43,674	421,854	3,927,152	23,026,066
25-29	4,611,799	59,933	10,730,736	60,635	387,116	3,714,011	19,564,230
30 and Over	2,570,729	84,664	8,571,154	49,362	1,228,139	6,443,702	18,947,750
Total	\$131,818,434	\$833,680	\$147,338,859	\$1,290,143	\$4,559,849	\$21,516,748	\$307,357,713

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Schools

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	0	2	0	3	0	154	159
30-34	1	3	3	1	0	76	84
35-39	1	33	11	3	0	127	175
40-44	0	167	32	3	2	174	378
45-49	0	538	63	14	1	339	955
50-54	1,974	1,335	100	29	2	461	3,901
55-59	11,100	1,997	165	86	1	801	14,150
60-64	22,924	2,149	142	88	3	1,178	26,484
65-69	26,920	2,018	81	104	2	1,705	30,830
70-74	23,577	1,397	32	69	4	2,437	27,516
75-79	19,763	1,034	29	55	1	3,374	24,256
80-84	15,907	740	11	37	0	4,171	20,866
85 and Over	14,146	588	4	30	0	5,720	20,488
Total	136,313	12,001	673	522	16	20,717	170,242

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Annual Allowance Amounts for

Retirees and Beneficiaries

By Age and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

Schools

Attained Age	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 30	\$0	\$8,423	\$0	\$19,626	\$0	\$707,591	\$735,640
30-34	3,555	17,256	631	5,438	0	460,335	487,215
35-39	3,555	226,215	8,078	12,795	0	641,227	891,870
40-44	0	1,407,268	11,834	37,085	563	1,022,881	2,479,631
45-49	0	4,757,586	65,522	93,120	436	2,230,140	7,146,804
50-54	14,070,221	13,485,632	76,393	186,101	2,765	3,369,928	31,191,040
55-59	150,191,055	20,302,760	276,738	498,010	18	6,535,176	177,803,757
60-64	358,005,637	21,726,688	312,121	647,563	4,006	10,728,225	391,424,240
65-69	399,459,079	19,038,406	129,375	676,261	581	14,999,772	434,303,474
70-74	300,516,009	11,681,657	60,853	414,905	1,621	20,931,791	333,606,836
75-79	224,787,326	7,876,593	116,059	283,740	240	26,304,405	259,368,363
80-84	155,520,842	5,496,569	8,640	250,949	0	29,373,558	190,650,558
85 and Over	121,371,425	3,702,383	11,465	219,718	0	32,877,303	158,182,294
Total	\$1,723,928,704	\$109,727,436	\$1,077,709	\$3,345,311	\$10,230	\$150,182,332	\$1,988,271,722

1 – Counts of members do not include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Number of Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Schools

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	41,406	1,847	161	196	3	924	44,537
5-9	30,652	2,987	188	145	0	1,905	35,877
10-14	22,427	2,793	110	54	1	2,698	28,083
15-19	17,899	1,877	95	55	3	3,636	23,565
20-24	11,112	903	51	33	5	3,429	15,533
25-29	9,548	867	48	19	3	4,878	15,363
30 and Over	3,289	727	20	20	1	3,247	7,304
Total	136,333	12,001	673	522	16	20,717	170,262

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Annual Allowance Amounts for Retirees and Beneficiaries

By Years Retired and Retirement Type

As of June 30, 2008

Annual Amounts not Including PPPA Payments

Schools

Years Retired	Service Retirement	Non-Industrial Disability	Industrial Disability	Non-Industrial Death	Industrial Death	Death After Retirement	Total
Under 5 Yrs	\$657,329,566	\$20,801,466	\$372,921	\$1,391,734	\$767	\$9,959,963	\$689,856,417
5-9	450,084,000	30,841,217	392,228	918,410	0	18,189,000	500,424,855
10-14	247,366,285	25,250,433	68,851	284,467	2,962	22,412,589	295,385,587
15-19	190,765,481	16,285,992	175,938	341,247	4,037	31,537,442	239,110,137
20-24	86,338,726	6,369,159	36,938	151,483	2,091	23,188,747	116,087,144
25-29	71,179,915	5,522,758	26,830	65,304	304	29,670,311	106,465,422
30 and Over	20,981,496	4,656,411	4,003	192,666	69	15,224,280	41,058,925
Total	\$1,724,045,469	\$109,727,436	\$1,077,709	\$3,345,311	\$10,230	\$150,182,332	\$1,988,388,487

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Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

State Miscellaneous Tier 1

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	2,015	52,555,618	26,082
2007	6,677	189,210,274	28,338
2006	6,533	168,783,936	25,836
2005	7,362	204,035,605	27,715
2004	8,713	255,319,044	29,303
2003	6,144	163,827,857	26,665
2002	6,048	166,683,306	27,560
2001	6,182	189,569,243	30,665
2000	8,257	254,991,499	30,882
1999	3,082	60,667,413	19,684
1998	4,552	103,718,244	22,785
1997	4,602	107,306,448	23,317
1996	4,387	105,305,164	24,004
1995	4,108	99,002,558	24,100
1994	4,136	99,410,491	24,035
1993	3,162	61,496,132	19,448
1992	5,095	132,012,679	25,910
1991	5,875	175,703,082	29,907
1990	3,274	74,359,039	22,712
1989	3,058	61,361,837	20,066
1988	3,411	75,750,046	22,208
1987	3,832	82,196,700	21,450
1986	3,160	62,714,815	19,846
1985	3,234	56,474,632	17,463
1984	2,766	45,175,298	16,332
1983	3,782	68,823,959	18,198
1982	2,677	42,432,525	15,851
1981	2,509	31,178,622	12,427
1980	2,630	34,256,006	13,025
1979	1,944	23,690,633	12,187
1977 and Earlier	1,674	21,459,147	12,819
Totals	142,827	3,367,793,001	23,580

1 – The numbers for 2008 are for the first 6 months of the calendar year only.

2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

State Miscellaneous Tier 2

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	56	349,805	6,247
2007	131	824,643	6,295
2006	132	735,267	5,570
2005	147	950,118	6,463
2004	128	841,884	6,577
2003	139	1,043,815	7,509
2002	173	1,218,362	7,043
2001	226	1,358,760	6,012
2000	277	2,102,054	7,589
1999	312	2,720,086	8,718
1998	390	3,684,639	9,448
1997	371	3,980,498	10,729
1996	315	3,465,430	11,001
1995	252	3,099,364	12,299
1994	174	2,309,937	13,276
1993	158	1,928,854	12,208
1992	145	1,651,291	11,388
1991	152	1,912,812	12,584
1990	83	941,691	11,346
1989	105	1,280,343	12,194
1988	97	1,054,928	10,876
1987	63	608,410	9,657
1986	56	543,188	9,700
1985	34	298,396	8,776
1984	0	0	0
1983	0	0	0
1982	0	0	0
1981	0	0	0
1980	0	0	0
1979	0	0	0
1977 and Earlier	0	0	0
Totals	4,116	38,904,575	9,452

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2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

State Industrial

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	187	2,138,545	11,436
2007	515	5,914,855	11,485
2006	578	6,167,171	10,670
2005	555	6,768,181	12,195
2004	675	7,804,219	11,562
2003	481	5,081,670	10,565
2002	466	5,016,827	10,766
2001	450	5,547,156	12,327
2000	590	7,143,563	12,108
1999	207	1,763,931	8,521
1998	312	2,605,726	8,352
1997	295	2,755,872	9,342
1996	241	2,108,335	8,748
1995	231	2,163,133	9,364
1994	197	1,914,235	9,717
1993	161	1,533,933	9,528
1992	223	2,939,183	13,180
1991	210	3,095,038	14,738
1990	129	1,109,193	8,598
1989	142	1,313,706	9,251
1988	94	1,051,581	11,187
1987	126	1,729,156	13,723
1986	78	1,109,775	14,228
1985	97	1,248,998	12,876
1984	77	825,092	10,715
1983	116	1,466,484	12,642
1982	83	1,120,799	13,504
1981	71	778,002	10,958
1980	77	832,809	10,816
1979	58	716,606	12,355
1977 and Earlier	37	427,839	11,563
Totals	7,938	88,523,990	11,152

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2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

State Safety

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	314	5,700,137	18,153
2007	978	17,471,436	17,864
2006	979	14,790,632	15,108
2005	1,040	16,532,656	15,897
2004	1,079	17,842,927	16,537
2003	823	13,139,023	15,965
2002	775	12,057,744	15,558
2001	729	11,296,369	15,496
2000	886	14,035,955	15,842
1999	404	4,878,530	12,076
1998	448	5,396,677	12,046
1997	402	5,370,905	13,360
1996	350	4,610,664	13,173
1995	288	3,354,230	11,647
1994	306	3,633,609	11,875
1993	201	2,805,599	13,958
1992	287	4,387,855	15,289
1991	272	3,663,786	13,470
1990	172	2,354,396	13,688
1989	191	2,743,615	14,364
1988	134	1,844,151	13,762
1987	158	2,437,083	15,425
1986	120	1,801,926	15,016
1985	181	2,696,286	14,897
1984	234	3,829,203	16,364
1983	415	7,683,995	18,516
1982	353	6,296,169	17,836
1981	382	6,154,119	16,110
1980	349	6,006,327	17,210
1979	304	5,143,509	16,919
1977 and Earlier	218	3,559,444	16,328
Totals	14,687	228,139,356	15,533

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2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

State Peace Officers and Firefighters

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	484	25,285,806	52,243
2007	1,703	94,172,931	55,298
2006	1,996	105,761,377	52,987
2005	1,241	55,543,018	44,757
2004	1,435	59,905,812	41,746
2003	1,220	49,397,136	40,489
2002	1,361	55,957,574	41,115
2001	1,267	51,264,130	40,461
2000	1,692	73,401,925	43,382
1999	633	17,980,024	28,404
1998	737	21,582,665	29,284
1997	774	24,628,557	31,820
1996	703	24,265,240	34,517
1995	626	21,568,855	34,455
1994	562	17,498,300	31,136
1993	526	16,975,874	32,274
1992	671	23,278,646	34,692
1991	653	24,465,246	37,466
1990	363	10,070,382	27,742
1989	404	11,306,113	27,985
1988	405	11,566,841	28,560
1987	518	15,148,286	29,244
1986	418	11,305,282	27,046
1985	329	8,679,695	26,382
1984	281	8,024,581	28,557
1983	0		0
1982	0		0
1981	1	70	70
1980	1	73	73
1979	0		0
1977 and Earlier	1	678	678
Totals	21,007	839,054,753	39,942

1 – The numbers for 2008 are for the first 6 months of the calendar year only.

2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

California Highway Patrol

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	140	11,643,545	83,168
2007	235	16,605,896	70,663
2006	287	18,933,709	65,971
2005	319	22,274,504	69,826
2004	258	15,739,882	61,007
2003	181	9,629,042	53,199
2002	263	15,544,472	59,104
2001	304	18,504,451	60,870
2000	431	23,815,345	55,256
1999	148	6,132,623	41,437
1998	196	8,280,822	42,249
1997	242	10,255,936	42,380
1996	271	12,456,330	45,964
1995	239	10,123,434	42,357
1994	190	7,184,626	37,814
1993	247	9,457,268	38,289
1992	192	6,540,340	34,064
1991	214	7,974,833	37,266
1990	145	4,792,366	33,051
1989	183	5,905,745	32,272
1988	191	6,509,416	34,081
1987	153	4,856,010	31,739
1986	180	5,330,194	29,612
1985	144	4,113,550	28,566
1984	144	3,985,520	27,677
1983	177	4,338,558	24,512
1982	196	4,591,660	23,427
1981	186	4,200,037	22,581
1980	146	3,104,136	21,261
1979	140	3,234,106	23,101
1977 and Earlier	125	2,890,279	23,122
Totals	7,358	307,357,713	41,772

1 – The numbers for 2008 are for the first 6 months of the calendar year only.

2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

Retirees and Beneficiaries

Number Counts and Benefits

By Year of Retirement

As of June 30, 2008

Schools

Years Retired	Total Retirement	Total Benefits	Average Benefits
2008	3,382	48,803,496	14,430
2007	8,360	135,902,387	16,256
2006	8,779	133,860,261	15,248
2005	8,938	132,927,847	14,872
2004	9,316	138,501,433	14,867
2003	9,800	155,845,286	15,903
2002	7,672	119,271,973	15,546
2001	6,852	103,594,459	15,119
2000	8,747	125,611,332	14,361
1999	5,090	54,013,801	10,612
1998	6,044	66,198,759	10,953
1997	5,694	59,286,723	10,412
1996	5,561	57,384,538	10,319
1995	5,762	59,858,022	10,388
1994	5,372	56,985,644	10,608
1993	5,437	60,267,720	11,085
1992	5,275	57,586,350	10,917
1991	4,975	53,132,594	10,680
1990	4,378	42,391,113	9,683
1989	4,288	40,055,848	9,341
1988	4,070	36,862,683	9,057
1987	3,789	32,302,162	8,525
1986	3,531	28,169,015	7,978
1985	3,209	22,464,992	7,001
1984	2,609	16,658,924	6,385
1983	4,793	41,231,987	8,603
1982	2,632	18,340,994	6,968
1981	2,637	15,164,112	5,751
1980	2,407	14,135,592	5,873
1979	2,242	12,576,801	5,610
1977 and Earlier	1,747	10,191,227	5,834
Totals	170,269	1,988,470,067	11,678

1 – The numbers for 2008 are for the first 6 months of the calendar year only.

2 – Counts of members include alternate payees receiving benefits while the member is still working. Multiple records may exist for those who have service in more than one coverage group. This does not result in double counting of liabilities.

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Actuarial Methods

FUNDING METHOD

The actuarial funding method used for this report is the Individual Entry Age Normal Cost Method. Under this method, projected benefits are determined for all members and the associated liabilities are spread in a manner that produces level annual cost as a percent of pay in each year from the age of hire (entry age) to the assumed retirement age. The cost allocated to the current fiscal year is called the normal cost.

The actuarial accrued liability for active members is then calculated as the portion of the total cost of the plan allocated to prior years. The actuarial accrued liability for members currently receiving benefits, for active members beyond the assumed retirement age, and for members entitled to deferred benefits, is equal to the present value of the benefits expected to be paid. No normal costs are applicable for these participants.

The excess of the total actuarial accrued liability over the actuarial value of plan assets is called the unfunded actuarial accrued liability. Funding requirements are determined by adding the normal cost and an amortization of the unfunded liability as a level percentage of assumed future payroll. Beginning July 1, 2000, all State and Schools plans became subject to the amortization methods prescribed in Actuarial Policy ACT-96-05E, described below.

Actuarial Policy ACT-96-05E specifies that all changes in liability due to plan amendments, changes in actuarial assumptions, or changes in actuarial methodology are amortized separately over a 20-year period. In addition, all gains or losses are tracked and the net unamortized gain or loss is amortized as a rolling 30-year amortization. Also, if a plan's accrued liability exceeds the actuarial value of assets, the annual contribution with respect to the total unfunded liability may not be less than the amount produced by a 30-year amortization of the unfunded liability. Finally, all plans are subject to a minimum employer contribution rate equal to the employer normal cost plus a 30-year amortization of surplus, if any.

An exception to the funding rules above is used whenever the application of such rules results in inconsistencies. In these cases a "fresh start" approach is used. This simply means that the current total unfunded actuarial liability/surplus is projected and amortized over a set number of years. This fresh start approach generally occurs when a total negative rate would result or a positive payment would be required on a negative unfunded actuarial liability (or conversely a negative payment on a positive unfunded actuarial liability). When the fresh start is being used to avoid a negative total rate and the surplus is sufficient to offset at least 30 years of normal cost payments, the amortization period equals the number of years that the rate is projected to be zero. In addition, a fresh start may be used whenever the Chief Actuary feels that it would be better achieve the intent of the Board's funding policy.

By State statute for California Highway Patrol only, a portion of the assets in excess of the Entry Age Normal accrued liability can be applied as a direct offset to required employer and employee contributions.

The 1959 Survivor Program valuation is not provided in this report. A separate report for that program is available.

The Term Insurance Method is used for the State Group Term Life Insurance Program. The required contribution for the coming fiscal year is the difference between the reserves for that benefit and one and one-half times the expected benefit payments, but not less than zero.

DATA EXTRACT

The June 30, 2008 actuarial valuation used the same data extract programs as used in the prior year.

PURCHASING POWER PROTECTION ACT (PPPA) METHOD

PPPA benefits are cost-of-living adjustments intended to maintain the individual's current retirement benefit at 75% of the original benefit at retirement adjusted for inflation since retirement. The PPPA benefit is paid, if necessary, in addition to any other cost-of-living adjustment provided under the terms of the plan. Prior to January 1, 2001, there was a single PPPA pool covering all CalPERS employers. However, commencing January 1, 2001, separate PPPA pools were established. A pool was set up for all State plans and a separate pool for School employers. The public agencies were removed entirely from PPPA pooling resulting in each public agency plan paying for its own PPPA benefits. The creation of separate pools effectively eliminates the cross subsidization between the State, Schools and public agencies. Because there is a single PPPA pool for all State plans, cross subsidization between State plans still occurs.

For the State and Schools plans, the total annual outlay for PPPA benefits is limited by State statute to earnings of up to 1.1% of accumulated member contributions. If this annual outlay is insufficient to provide the PPPA benefits in a given fiscal year, the 75% maintenance target would be proportionately reduced. Since the inception of the PPPA benefit program, 1.1% has proved more than sufficient to provide the 75% maintenance. Under the inflation assumption of 3% compounded annually, the 1.1% appears to remain more than sufficient in the foreseeable future.

The actuarial model mimics the PPPA administrative procedure by deriving the employer contribution rate for the plan as the lesser of two separate actuarially computed rates:

- 1) The rate that results if a full 1.1% investment return on the actuarial value of each future year's employee assets in the plan is used for that plan's PPPA payments; or
- 2) The rate that results if the plan pays the full 75% purchasing power for itself.

In this way, those plans for which future PPPA costs equal or exceed a 1.1% return on current and future employee assets are charged an employer rate that replaces the 1.1% return on employee assets. Those plans that require less than the 1.1% return on current and future employee assets to maintain 75% purchasing power are charged the rate necessary to maintain the 75% purchasing power. It must be noted that nothing is charged in the rates for any cross-subsidization. That is, the model assumes that cross subsidization for PPPA for State plans will remain so small that it can be ignored.

INTERNAL REVENUE CODE SECTION 415

The limitations on benefits imposed by Internal Revenue Code Section 415 were not taken into account in this valuation. The effect of these limitations has been deemed immaterial on the overall results of this valuation.

ASSET VALUATION METHOD

In order to dampen the effect of short-term market value fluctuations on employer contribution rates, the following asset smoothing technique is used. First an Expected Value of Assets would be computed by bringing forward the prior year's Actuarial Value of Assets and the contributions received and benefits paid during the year at the assumed actuarial rate of return. The Actuarial Value of Assets would then be computed as the Expected Value of Assets plus one-fifteenth of the difference between the actual Market Value of Assets and the Expected Value of Assets as of the valuation date. Finally, the Actuarial Value of Assets is restricted to no less than 80% and no more than 120% of the Market Value of Assets.

ACCOUNTS RECEIVABLE

In preparing valuations and setting employer contribution rates, the asset figures used include accounts receivable. The CalPERS Actuarial Office assumes that all assets are accruing interest at the actuarially-assumed rate. Therefore, the rates depicted assume that all payments have been made and are accruing interest.

Actuarial Assumptions Applicable to All Plans

ECONOMIC ASSUMPTIONS:

Investment Return

- 7.75% compounded annually (net of administrative expenses).

Salary Growth

- Annual increases vary by entry age and service. See sample rates in table below.

Duration of Service	Annual Percentage Increase					
	State Miscellaneous Tier 1 & Tier 2			Industrial		
	Entry Age			Entry Age		
	20	30	40	20	30	40
0	13.35%	10.95%	8.25%	9.55%	8.85%	8.25%
3	8.95%	8.05%	6.55%	8.15%	7.75%	7.35%
5	7.25%	6.75%	5.85%	7.35%	7.15%	6.95%
10	4.95%	4.85%	4.45%	6.05%	5.85%	5.75%
15	4.25%	4.15%	3.95%	5.15%	5.05%	4.95%
20	3.85%	3.85%	3.75%	4.55%	4.45%	4.35%
25	3.55%	3.55%	3.45%	3.85%	3.85%	3.85%
30	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%

Duration of Service	Annual Percentage Increase					
	Safety			POFF		
	Entry Age			Entry Age		
	20	30	40	20	30	40
0	7.55%	7.35%	7.15%	19.95%	18.55%	16.85%
3	6.15%	5.65%	4.85%	9.05%	8.85%	8.25%
5	5.55%	5.05%	4.05%	6.85%	6.65%	6.05%
10	4.85%	4.35%	3.55%	4.65%	4.55%	4.35%
15	4.35%	4.05%	3.45%	4.15%	4.05%	4.05%
20	3.95%	3.75%	3.45%	3.85%	3.75%	3.75%
25	3.65%	3.55%	3.35%	3.55%	3.55%	3.55%
30	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%

Duration of Service	CHP			Schools		
	Entry Age			Entry Age		
	20	30	40	20	30	40
0	9.05%	9.05%	9.05%	11.05%	9.85%	8.45%
3	6.25%	6.25%	6.25%	7.75%	7.25%	6.45%
5	5.15%	5.15%	5.15%	6.55%	6.25%	5.55%
10	3.95%	3.95%	3.95%	4.75%	4.65%	4.35%
15	3.75%	3.75%	3.75%	4.15%	4.05%	3.75%
20	3.55%	3.55%	3.55%	3.85%	3.75%	3.45%
25	3.45%	3.45%	3.45%	3.55%	3.55%	3.35%
30	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%

Overall Payroll Growth

- 3.25% compounded annually (used in projecting the payroll over which the unfunded liability is amortized). For the State Miscellaneous plan, the payroll of the Second Tier members is assumed to decrease in accordance with actuarial assumptions based on the assumption that all new entrants will elect the State Miscellaneous First Tier. The payroll of the First Tier members is assumed to grow at the rate necessary for the overall payroll of the State Miscellaneous plan to grow annually at a rate of 3.25%.

Inflation

- 3% compounded annually.

DEMOGRAPHIC ASSUMPTIONS:

Marital Status

- For active members, a percentage married upon Retirement is assumed according to the following table.

<u>Plan</u>	<u>Percent Married</u>
State Miscellaneous, Tier 1	85%
State Miscellaneous, Tier 2	85%
State Industrial	85%
State Safety	90%
State Police Officers/Firefighters	90%
California Highway Patrol	90%
Schools	85%

Age of Spouse

- It is assumed that female spouses are 3 years younger than male spouses.

MISCELLANEOUS LOADING FACTORS:

Credit for Unused Sick Leave

- Final Average Salary is increased by 1% for all groups providing credit for unused sick leave.

Norris Decision (Best Factors)

- Employees hired prior to July 1, 1982 have projected benefit amounts increased in order to reflect the use of “Best Factors” for these employees in the calculation of optional benefit forms. This is due to a 1983 Supreme Court decision, known as the Norris decision, which required males and females to be treated equally in the determination of benefit amounts. Consequently, anyone already employed at that time is given the best possible conversion factor when optional benefits are determined. A unisex conversion table was developed for employees hired after July 1, 1982, which was a weighted average of the male and female tables. Therefore, no loading is necessary in this case.

MISCELLANEOUS ASSUMPTIONS:

Tier 2 Members electing Tier 1 benefits

- Tier 2 members of both the State Miscellaneous and State Industrial plans have the right to convert their Tier 2 service to Tier 1 service provided that they make up the shortfall in their accumulated contributions with interest. In this valuation, we have assumed that all Tier 2 members will elect to convert their Tier 2 service to Tier 1 service.

Plan Specific Actuarial Assumptions

STATE MISCELLANEOUS TIER 1

Service Retirement

- Rates vary by age and service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0033	0.0088	0.0124	0.0153	0.0187	0.0219	0.0253
52	0.0025	0.0067	0.0094	0.0115	0.0142	0.0165	0.0191
54	0.0040	0.0108	0.0152	0.0187	0.0230	0.0269	0.0310
56	0.0095	0.0255	0.0358	0.0440	0.0541	0.0631	0.0729
58	0.0149	0.0401	0.0564	0.0693	0.0851	0.0994	0.1148
60	0.0259	0.0697	0.0980	0.1205	0.1479	0.1728	0.1996
62	0.0466	0.1252	0.1763	0.2166	0.2659	0.3106	0.3588
65	0.0538	0.1447	0.2037	0.2503	0.3073	0.3589	0.4146
70	0.0397	0.1068	0.1504	0.1848	0.2268	0.2650	0.3061
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
0	0.1218	0.1165	0.1113	0.1061	0.1009
1	0.1086	0.1034	0.0981	0.0929	0.0877
2	0.0954	0.0902	0.0850	0.0797	0.0745
3	0.0822	0.0770	0.0718	0.0666	0.0613
4	0.0690	0.0638	0.0586	0.0534	0.0481
5	0.0207	0.0187	0.0168	0.0149	0.0129
10	0.0118	0.0101	0.0084	0.0068	0.0051
15	0.0079	0.0065	0.0050	0.0036	0.0022
20	0.0049	0.0037	0.0025	0.0013	0.0002
25	0.0025	0.0015	0.0006	0.0002	0.0002
30	0.0010	0.0002	0.0002	0.0002	0.0002

STATE MISCELLANEOUS TIER 1 (CONTINUED)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0352	0.0319	0.0286	0.0253	0.0221
6	0.0333	0.0299	0.0266	0.0233	0.0200
7	0.0313	0.0279	0.0246	0.0212	0.0177
8	0.0293	0.0259	0.0225	0.0189	0.0155
9	0.0272	0.0237	0.0203	0.0167	0.0132
10	0.0250	0.0215	0.0179	0.0143	-
14	0.0221	0.0183	0.0145	0.0108	-
15	0.0212	0.0174	0.0137	-	-
19	0.0175	0.0135	0.0095	-	-
20	0.0166	0.0125	-	-	-
24	0.0124	0.0082	-	-	-
25	0.0113	-	-	-	-
29	0.0065	-	-	-	-
30	-	-	-	-	-

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age and gender. See sample rates in table below.

Attained Age	Male		Female	
	Non-Industrial Death	Non-Industrial Disability	Non-Industrial Death	Non-Industrial Disability
20	0.00019	0.0001	0.00009	0.0001
25	0.00027	0.0002	0.00014	0.0005
30	0.00038	0.0003	0.00021	0.0010
35	0.00054	0.0005	0.00031	0.0014
40	0.00077	0.0012	0.00046	0.0022
45	0.00110	0.0022	0.00068	0.0035
50	0.00156	0.0038	0.00102	0.0056
55	0.00221	0.0040	0.00151	0.0070
60	0.00314	0.0026	0.00226	0.0057

STATE MISCELLANEOUS TIER 1 (CONTINUED)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

STATE MISCELLANEOUS TIER 2

Service Retirement

- Rates vary by age and Service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0033	0.0088	0.0124	0.0153	0.0187	0.0219	0.0253
52	0.0025	0.0067	0.0094	0.0115	0.0142	0.0165	0.0191
54	0.0040	0.0108	0.0152	0.0187	0.0230	0.0269	0.0310
56	0.0095	0.0255	0.0358	0.0440	0.0541	0.0631	0.0729
58	0.0149	0.0401	0.0564	0.0693	0.0851	0.0994	0.1148
60	0.0259	0.0697	0.0980	0.1205	0.1479	0.1728	0.1996
62	0.0466	0.1252	0.1763	0.2166	0.2659	0.3106	0.3588
65	0.0538	0.1447	0.2037	0.2503	0.3073	0.3589	0.4146
70	0.0397	0.1068	0.1504	0.1848	0.2268	0.2650	0.3061
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Non-vested Termination

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
0	0.1496	0.1433	0.1370	0.1307	0.1244
1	0.1365	0.1302	0.1239	0.1176	0.1113
2	0.1234	0.1172	0.1109	0.1046	0.0983
3	0.1104	0.1041	0.0978	0.0915	0.0852
4	0.0973	0.0910	0.0848	0.0785	0.0722
5	0.0843	0.0780	0.0717	0.0654	0.0591
6	0.0792	0.0729	0.0666	0.0603	0.0540
7	0.0741	0.0678	0.0615	0.0553	0.0490
8	0.0691	0.0628	0.0565	0.0502	0.0439
9	0.0640	0.0577	0.0514	0.0451	0.0388

STATE MISCELLANEOUS TIER 2 (Continued)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
10	0.0589	0.0526	0.0463	0.0400	-
14	0.0480	0.0417	0.0354	0.0291	-
15	0.0453	0.0390	0.0327	-	-
19	0.0344	0.0281	0.0218	-	-
20	0.0317	0.0254	-	-	-
24	0.0208	0.0145	-	-	-
25	0.0180	-	-	-	-
29	0.0071	-	-	-	-
30	-	-	-	-	-

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age and gender. See sample rates in table below.

Attained Age	Male		Female	
	Non-Industrial Death	Non-Industrial Disability	Non-Industrial Death	Non-Industrial Disability
20	0.00019	0.0001	0.00009	0.0001
25	0.00027	0.0002	0.00014	0.0004
30	0.00038	0.0003	0.00021	0.0006
35	0.00054	0.0003	0.00031	0.0017
40	0.00077	0.0023	0.00046	0.0041
45	0.00110	0.0042	0.00068	0.0068
50	0.00156	0.0058	0.00102	0.0099
55	0.00221	0.0073	0.00151	0.0123
60	0.00314	0.0081	0.00226	0.0134

STATE MISCELLANEOUS TIER 2 (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

STATE INDUSTRIAL TIER 1

Service Retirement

- Rates vary by age and service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0062	0.0113	0.0177	0.0262	0.0309	0.0328	0.0388
52	0.0035	0.0065	0.0101	0.0149	0.0176	0.0187	0.0222
54	0.0079	0.0145	0.0227	0.0335	0.0396	0.0420	0.0498
56	0.0160	0.0294	0.0459	0.0679	0.0801	0.0851	0.1008
58	0.0249	0.0457	0.0713	0.1056	0.1245	0.1323	0.1567
60	0.0305	0.0559	0.0873	0.1292	0.1524	0.1619	0.1918
62	0.0606	0.1110	0.1733	0.2565	0.3026	0.3214	0.3808
65	0.0666	0.1220	0.1906	0.2821	0.3328	0.3535	0.4187
70	0.0444	0.0814	0.1271	0.1882	0.2220	0.2358	0.2793
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
0	0.0734	0.0703	0.0671	0.0640	0.0608
1	0.0655	0.0623	0.0592	0.0560	0.0529
2	0.0575	0.0544	0.0512	0.0481	0.0449
3	0.0496	0.0464	0.0433	0.0401	0.0370
4	0.0416	0.0385	0.0353	0.0322	0.0290
5	0.0125	0.0113	0.0101	0.0090	0.0078
10	0.0071	0.0061	0.0051	0.0041	0.0031
15	0.0047	0.0039	0.0030	0.0022	0.0013
20	0.0030	0.0023	0.0015	0.0008	0.0002
25	0.0015	0.0009	0.0004	0.0002	0.0002
30	0.0006	0.0002	0.0002	0.0002	0.0002

STATE INDUSTRIAL TIER 1 (Continued)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0212	0.0192	0.0173	0.0152	0.0133
6	0.0201	0.0180	0.0161	0.0140	0.0120
7	0.0189	0.0168	0.0148	0.0127	0.0107
8	0.0177	0.0156	0.0135	0.0114	0.0094
9	0.0164	0.0143	0.0122	0.0100	0.0080
10	0.0151	0.0129	0.0108	0.0086	-
14	0.0133	0.0110	0.0088	0.0065	-
15	0.0129	0.0105	0.0083	-	-
19	0.0106	0.0081	0.0058	-	-
20	0.0099	0.0075	-	-	-
24	0.0074	0.0049	-	-	-
25	0.0068	-	-	-	-
29	0.0039	-	-	-	-
30	-	-	-	-	-

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability, Non-Industrial Disability & Industrial Death

- Rates vary by age. See sample rates in table below.

Attained Age	Non-Industrial Death		Non-Industrial Disability	Industrial Disability	Industrial Death
	Male	Female	Male and Female	Male and Female	Male and Female
			Male and Female	Male and Female	Male and Female
20	0.00019	0.00009	0.0005	0.0001	0.00003
25	0.00027	0.00014	0.0010	0.0001	0.00007
30	0.00038	0.00021	0.0016	0.0001	0.00010
35	0.00054	0.00031	0.0024	0.0002	0.00013
40	0.00077	0.00046	0.0037	0.0002	0.00017
45	0.00110	0.00068	0.0055	0.0003	0.00020
50	0.00156	0.00102	0.0073	0.0003	0.00023
55	0.00221	0.00151	0.0093	0.0004	0.00027
60	0.00314	0.00226	0.0108	0.0004	0.00030

STATE INDUSTRIAL TIER 1 (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

<u>Age</u>	<u>Healthy Recipients</u>		<u>Non-Industrially Disabled (Not Job-Related)</u>		<u>Industrially Disabled (Job-Related)</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

STATE INDUSTRIAL TIER 2

Service Retirement

- Rates vary by age and service . See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0062	0.0113	0.0177	0.0262	0.0309	0.0328	0.0388
52	0.0035	0.0065	0.0101	0.0149	0.0176	0.0187	0.0222
54	0.0079	0.0145	0.0227	0.0335	0.0396	0.0420	0.0498
56	0.0160	0.0294	0.0459	0.0679	0.0801	0.0851	0.1008
58	0.0249	0.0457	0.0713	0.1056	0.1245	0.1323	0.1567
60	0.0305	0.0559	0.0873	0.1292	0.1524	0.1619	0.1918
62	0.0606	0.1110	0.1733	0.2565	0.3026	0.3214	0.3808
65	0.0666	0.1220	0.1906	0.2821	0.3328	0.3535	0.4187
70	0.0444	0.0814	0.1271	0.1882	0.2220	0.2358	0.2793
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
0	0.0734	0.0703	0.0671	0.0640	0.0608
1	0.0655	0.0623	0.0592	0.0560	0.0529
2	0.0575	0.0544	0.0512	0.0481	0.0449
3	0.0496	0.0464	0.0433	0.0401	0.0370
4	0.0416	0.0385	0.0353	0.0322	0.0290
5	0.0125	0.0113	0.0101	0.0090	0.0078
10	0.0071	0.0061	0.0051	0.0041	0.0031
15	0.0047	0.0039	0.0030	0.0022	0.0013
20	0.0030	0.0023	0.0015	0.0008	0.0002
25	0.0015	0.0009	0.0004	0.0002	0.0002
30	0.0006	0.0002	0.0002	0.0002	0.0002

STATE INDUSTRIAL TIER 2 (Continued)

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0212	0.0192	0.0173	0.0152	0.0133
6	0.0201	0.0180	0.0161	0.0140	0.0120
7	0.0189	0.0168	0.0148	0.0127	0.0107
8	0.0177	0.0156	0.0135	0.0114	0.0094
9	0.0164	0.0143	0.0122	0.0100	0.0080
10	0.0151	0.0129	0.0108	0.0086	-
14	0.0133	0.0110	0.0088	0.0065	-
15	0.0129	0.0105	0.0083	-	-
19	0.0106	0.0081	0.0058	-	-
20	0.0099	0.0075	-	-	-
24	0.0074	0.0049	-	-	-
25	0.0068	-	-	-	-
29	0.0039	-	-	-	-
30	-	-	-	-	-

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age. See sample rates in table below.

Industrial Disability

- Rates vary by age. See sample rates in table below.

Industrial Death

- Rates vary by age. See sample rates in table below.

Attained Age	Non-Industrial Death		Non-Industrial Disability	Industrial Disability	Industrial Death
	Male	Female	Male and Female	Male and Female	Male and Female
			Male and Female	Male and Female	Male and Female
20	0.00019	0.00009	0.0005	0.0001	0.00003
25	0.00027	0.00014	0.0010	0.0001	0.00007
30	0.00038	0.00021	0.0016	0.0001	0.00010
35	0.00054	0.00031	0.0024	0.0002	0.00013
40	0.00077	0.00046	0.0037	0.0002	0.00017
45	0.00110	0.00068	0.0055	0.0003	0.00020
50	0.00156	0.00102	0.0073	0.0003	0.00023
55	0.00221	0.00151	0.0093	0.0004	0.00027
60	0.00314	0.00226	0.0108	0.0004	0.00030

STATE INDUSTRIAL TIER 2 (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

STATE SAFETY

Service Retirement

- Rates vary by age and service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0099	0.0167	0.0226	0.0265	0.0295	0.0384	0.0455
52	0.0067	0.0113	0.0154	0.0180	0.0201	0.0261	0.0309
54	0.0074	0.0125	0.0169	0.0198	0.0220	0.0286	0.0340
56	0.0252	0.0424	0.0575	0.0673	0.0750	0.0975	0.1157
58	0.0268	0.0451	0.0610	0.0715	0.0797	0.1036	0.1228
60	0.0429	0.0723	0.0979	0.1146	0.1278	0.1662	0.1970
62	0.0697	0.1174	0.1590	0.1862	0.2076	0.2698	0.3200
65	0.0952	0.1604	0.2173	0.2544	0.2837	0.3687	0.4373
70	0.0684	0.1152	0.1561	0.1828	0.2038	0.2649	0.3141
75	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Termination with Refund

- Rates vary by service. See sample rates in table below.

Service										
0	1	2	3	4	5	10	15	20	25	30
0.1313	0.0967	0.0622	0.0461	0.0374	0.0106	0.0077	0.0052	0.0033	0.0017	0.0012

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0181	0.0181	0.0181	0.0181	0.0181
6	0.0178	0.0178	0.0178	0.0178	0.0178
7	0.0175	0.0175	0.0175	0.0175	0.0175
8	0.0171	0.0171	0.0171	0.0171	0.0171
9	0.0167	0.0167	0.0167	0.0167	0.0167
10	0.0163	0.0163	0.0163	0.0163	-
14	0.0145	0.0145	0.0145	0.0145	-
15	0.0140	0.0140	0.0140	-	-
19	0.0117	0.0117	0.0117	-	-
20	0.0111	0.0111	-	-	-
24	0.0085	0.0085	-	-	-
25	0.0078	-	-	-	-
29	0.0064	-	-	-	-
30	-	-	-	-	-

STATE SAFETY (Continued)

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability, Non-Industrial Disability & Industrial Death

- Rates vary by age. See sample rates in table below.

Attained Age	Non-Industrial Death		Non-Industrial Disability	Industrial Disability	Industrial Death
	Male	Female	Male and Female	Male and Female	Male and Female
20	0.00019	0.00009	0.0004	0.0002	0.00003
25	0.00027	0.00014	0.0006	0.0009	0.00007
30	0.00038	0.00021	0.0007	0.0018	0.00010
35	0.00054	0.00031	0.0008	0.0027	0.00013
40	0.00077	0.00046	0.0008	0.0036	0.00017
45	0.00110	0.00068	0.0012	0.0044	0.00020
50	0.00156	0.00102	0.0024	0.0053	0.00023
55	0.00221	0.00151	0.0034	0.0080	0.00027
60	0.00314	0.00226	0.0043	0.0080	0.00030

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients and for non-industrially disabled (disability not job related) retirees. Rates vary by age for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

STATE PEACE OFFICERS AND FIREFIGHTERS

Service Retirement

- Rates vary by age and service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0048	0.0161	0.0218	0.0251	0.0417	0.0655	0.0761
52	0.0062	0.0208	0.0281	0.0324	0.0539	0.0846	0.0983
54	0.0128	0.0431	0.0582	0.0671	0.1114	0.1751	0.2034
56	0.0166	0.0559	0.0755	0.0871	0.1446	0.2272	0.2639
58	0.0156	0.0526	0.0710	0.0820	0.1361	0.2138	0.2483
60	0.0200	0.0671	0.0906	0.1045	0.1735	0.2726	0.3166
62	0.0277	0.0929	0.1256	0.1449	0.2405	0.3779	0.4389
65	0.0392	0.1318	0.1781	0.2055	0.3411	0.5360	0.6225
70	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Termination with Refund

- Rates vary by service. See sample rates in table below.

Service										
0	1	2	3	4	5	10	15	20	25	30
0.1432	0.0916	0.0507	0.0415	0.0323	0.0085	0.0059	0.0038	0.0022	0.0009	0.0005

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0145	0.0145	0.0145	0.0145	0.0145
6	0.0141	0.0141	0.0141	0.0141	0.0141
7	0.0138	0.0138	0.0138	0.0138	0.0138
8	0.0134	0.0134	0.0134	0.0134	0.0134
9	0.0130	0.0130	0.0130	0.0130	0.0130
10	0.0125	0.0125	0.0125	0.0125	-
14	0.0107	0.0107	0.0107	0.0107	-
15	0.0101	0.0101	0.0101	-	-
19	0.0078	0.0078	0.0078	-	-
20	0.0072	0.0072	-	-	-
24	0.0046	0.0046	-	-	-
25	0.0039	-	-	-	-
29	0.0025	-	-	-	-
30	-	-	-	-	-

STATE PEACE OFFICERS AND FIREFIGHTERS (Continued)

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability, Non-Industrial Disability & Industrial Death

- Rates vary by age. See sample rates in table below.

<u>Attained Age</u>	<u>Non-Industrial Death</u>		<u>Non-Industrial Disability</u>	<u>Industrial Disability</u>	<u>Industrial Death</u>
	<u>Male</u>	<u>Female</u>	<u>Male and Female</u>	<u>Male and Female</u>	<u>Male and Female</u>
20	0.00019	0.00009	0.0001	0.0003	0.00003
25	0.00027	0.00014	0.0001	0.0015	0.00007
30	0.00038	0.00021	0.0001	0.0030	0.00010
35	0.00054	0.00031	0.0002	0.0045	0.00013
40	0.00077	0.00046	0.0005	0.0060	0.00017
45	0.00110	0.00068	0.0008	0.0075	0.00020
50	0.00156	0.00102	0.0013	0.0090	0.00023
55	0.00221	0.00151	0.0019	0.0208	0.00027
60	0.00314	0.00226	0.0025	0.0208	0.00030

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

<u>Age</u>	<u>Healthy Recipients</u>		<u>Non-Industrially Disabled (Not Job-Related)</u>		<u>Industrially Disabled (Job-Related)</u>	
	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Female</u>
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

CALIFORNIA HIGHWAY PATROL

Service Retirement

- Rates vary by age and service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0044	0.0044	0.0044	0.0044	0.0132	0.0250	0.0288
52	0.0145	0.0145	0.0145	0.0145	0.0435	0.0825	0.0950
54	0.0303	0.0303	0.0303	0.0303	0.0909	0.1725	0.1988
56	0.0271	0.0271	0.0271	0.0271	0.0813	0.1542	0.1777
58	0.0229	0.0229	0.0229	0.0229	0.0686	0.1301	0.1499
60	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Termination with Refund

- Rates vary by service. See sample rates in table below.

Service										
0	1	2	3	4	5	10	15	20	25	30
0.0115	0.0111	0.0108	0.0104	0.0101	0.0036	0.0026	0.0017	0.0010	0.0005	0.0003

Terminations with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0061	0.0061	0.0061	0.0061	0.0061
6	0.0060	0.0060	0.0060	0.0060	0.0060
7	0.0059	0.0059	0.0059	0.0059	0.0059
8	0.0057	0.0057	0.0057	0.0057	0.0057
9	0.0056	0.0056	0.0056	0.0056	0.0056
10	0.0054	0.0054	0.0054	0.0054	-
14	0.0047	0.0047	0.0047	0.0047	-
15	0.0046	0.0046	0.0046	-	-
19	0.0037	0.0037	0.0037	-	-
20	0.0035	0.0035	-	-	-
24	0.0025	0.0025	-	-	-
25	0.0022	-	-	-	-
29	0.0017	-	-	-	-
30	-	-	-	-	-

CALIFORNIA HIGHWAY PATROL (Continued)

Non-Industrial Death & Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Industrial Disability & Non-Industrial Disability

- Rates vary by age. See sample rates in table below.

Attained Age	Non-Industrial Death		Non-Industrial Disability	Industrial Disability	Industrial Death
	Male	Female	Male and Female	Male and Female	Male and Female
			Female	Female	Female
20	0.00019	0.00009	0.0001	0.0009	0.00003
25	0.00027	0.00014	0.0001	0.0017	0.00007
30	0.00038	0.00021	0.0001	0.0025	0.00010
35	0.00054	0.00031	0.0001	0.0033	0.00013
40	0.00077	0.00046	0.0001	0.0042	0.00017
45	0.00110	0.00068	0.0002	0.0050	0.00020
50	0.00156	0.00102	0.0002	0.0058	0.00023
55	0.00221	0.00151	0.0002	0.1189	0.00027
60	0.00314	0.00226	0.0002	0.1189	0.00030

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

SCHOOLS

Service Retirement

- Rates vary by age and service. See sample rates in table below.

Attained Age	Years of Service						
	5	10	15	20	25	30	35
50	0.0036	0.0071	0.0100	0.0118	0.0131	0.0147	0.0172
52	0.0035	0.0069	0.0096	0.0114	0.0127	0.0142	0.0167
54	0.0060	0.0118	0.0165	0.0196	0.0218	0.0244	0.0286
56	0.0158	0.0314	0.0439	0.0519	0.0578	0.0647	0.0760
58	0.0202	0.0402	0.0562	0.0663	0.0739	0.0827	0.0971
60	0.0368	0.0729	0.1020	0.1205	0.1342	0.1502	0.1763
62	0.0762	0.1512	0.2115	0.2498	0.2784	0.3114	0.3657
65	0.0906	0.1797	0.2513	0.2969	0.3308	0.3701	0.4345
70	0.0660	0.1308	0.1830	0.2162	0.2408	0.2695	0.3164
75	0.0546	0.1082	0.1513	0.1788	0.1992	0.2229	0.2617

Termination with Refund

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
0	0.1617	0.1521	0.1425	0.1329	0.1233
1	0.1481	0.1385	0.1289	0.1193	0.1097
2	0.1346	0.1249	0.1153	0.1057	0.0961
3	0.1210	0.1114	0.1018	0.0922	0.0826
4	0.1074	0.0978	0.0882	0.0786	0.0690
5	0.0347	0.0311	0.0276	0.0240	0.0205
10	0.0215	0.0184	0.0153	0.0123	0.0092
15	0.0144	0.0118	0.0092	0.0066	0.0040
20	0.0091	0.0069	0.0047	0.0025	0.0003
25	0.0046	0.0029	0.0012	0.0002	0.0002
30	0.0019	0.0004	0.0002	0.0002	0.0002

SCHOOLS (Continued)

Termination with Vested Deferred Benefits

- Rates vary by entry age and service. See sample rates in table below.

Duration of Service	Entry Age				
	20	25	30	35	40
5	0.0591	0.0531	0.0470	0.0410	0.0349
6	0.0567	0.0505	0.0444	0.0382	0.0321
7	0.0540	0.0478	0.0415	0.0353	0.0290
8	0.0513	0.0450	0.0387	0.0323	0.0260
9	0.0486	0.0422	0.0357	0.0293	0.0229
10	0.0456	0.0391	0.0326	0.0260	-
14	0.0404	0.0335	0.0266	0.0197	-
15	0.0389	0.0319	0.0249	-	-
19	0.0321	0.0249	0.0176	-	-
20	0.0304	0.0230	-	-	-
24	0.0231	0.0153	-	-	-
25	0.0211	-	-	-	-
29	0.0123	-	-	-	-
30	-	-	-	-	-

Non-Industrial Death

- Rates vary by age and gender. See sample rates in table below.

Non-Industrial Disability

- Rates vary by age and gender. See sample rates in table below.

Attained Age	Male		Female	
	Non-Industrial Death	Non-Industrial Disability	Non-Industrial Death	Non-Industrial Disability
20	0.00019	0.0001	0.00009	0.0001
25	0.00027	0.0002	0.00014	0.0001
30	0.00038	0.0004	0.00021	0.0003
35	0.00054	0.0008	0.00031	0.0005
40	0.00077	0.0014	0.00046	0.0010
45	0.00110	0.0028	0.00068	0.0016
50	0.00156	0.0050	0.00102	0.0030
55	0.00221	0.0072	0.00151	0.0047
60	0.00314	0.0071	0.00226	0.0037

SCHOOLS (Continued)

Postretirement Mortality

- Rates vary by age and gender for healthy benefit recipients, for non-industrially disabled (disability not job related) retirees and for retirees who are industrially disabled (disability is job-related). See sample rates in table below.

Age	Healthy Recipients		Non-Industrially Disabled (Not Job-Related)		Industrially Disabled (Job-Related)	
	Male	Female	Male	Female	Male	Female
50	0.00245	0.00136	0.01459	0.01129	0.00546	0.00388
55	0.00429	0.00253	0.02115	0.01481	0.00616	0.00568
60	0.00721	0.00442	0.02870	0.01884	0.01016	0.00818
65	0.01302	0.00795	0.03617	0.02356	0.01853	0.01214
70	0.02135	0.01276	0.04673	0.03020	0.03369	0.01760
75	0.03716	0.02156	0.06552	0.04298	0.05768	0.02774
80	0.06256	0.03883	0.09481	0.06514	0.08670	0.04690
85	0.10195	0.07219	0.14041	0.10269	0.13032	0.08262
90	0.17379	0.12592	0.20793	0.16189	0.19588	0.13984
95	0.25917	0.21773	0.30792	0.25522	0.29444	0.23566
100	0.34724	0.32036	0.45599	0.40236	0.44259	0.35341

APPENDIX B

SUMMARY OF PRINCIPAL PLAN PROVISIONS

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Summary of Principal Plan Provisions

STATE MISCELLANEOUS TIER 1

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of this plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2% at 55** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

Retirement Age	2% at 55 Factor
50	1.100%
51	1.280%
52	1.460%
53	1.640%
54	1.820%
55	2.000%
56	2.064%
57	2.126%
58	2.188%
59	2.250%
60	2.314%
61	2.376%
62	2.438%
63 & Up	2.500%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this group may or may not be covered by Social Security. For employees covered by Social Security, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400).
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance (PRSA)* or simply as *survivor continuance*.

In other words, 25% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's

death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid

to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

For employees covered by Social Security, the contribution schedule is as follows:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The monthly compensation breakpoint is \$513.
- The percent contributed above the monthly compensation breakpoint is 5%.

For employees not covered by Social Security, the contribution schedule is as follows:

- The percent contributed below the monthly compensation breakpoint is 0%.
- The monthly compensation breakpoint is \$317.
- The percent contributed above the monthly compensation breakpoint is 6%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee's *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62

years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member's survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

STATE MISCELLANEOUS TIER 2

The following is a summary of the major plan provisions applicable to State Miscellaneous Tier 2 members. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Tier 2 Members electing Tier 1 benefits

State Miscellaneous Tier 2 members have the right to convert their Tier 2 service to Tier 1 service provided that they make up the shortfall in their accumulated contributions with interest. In this valuation, we have assumed that all State Miscellaneous Tier 2 members will elect to convert their Tier 2 service to Tier 1 service.

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 55 with at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the benefit factor, years of service, and final compensation, where

- The benefit factor for this group of employees comes from the 1.25% at 65 Tier 2 benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

<u>Retirement Age</u>	1.25% at 65 Tier 2 Factor	<u>Retirement Age</u>	1.25% at 65 Tier 2 Factor
50	0.5000%	58	0.9000%
51	0.5500%	59	0.9500%
52	0.6000%	60	1.0000%
53	0.6500%	61	1.0500%
54	0.7000%	62	1.1000%
55	0.7500%	63	1.1500%
56	0.8000%	64	1.2000%
57	0.8500%	65 & Up	1.2500%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this group may or may not be covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, and has earned at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 55. Members with 5 years of service before January 1, 1985, are eligible at age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes disabled and has at least 10 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. Disabled means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.125% of final compensation, multiplied by service, which is determined as follows:

- service is CalPERS credited service, for members with less than 10 years of service or greater than 29.628 years of service; or
- service is CalPERS credited service plus the additional number of years that the member would have worked until age 65, for members with at least 10 years but not more than 29.628 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, without a reduction in the retiree's allowance. This additional benefit is often referred to as post retirement survivor allowance (PRSA) or simply as survivor continuance.

In other words, 25% of the allowance, the continuance portion, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the option portion of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this option portion to be paid to any designated beneficiary after the retiree's

death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with any CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with any CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid

to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 55, and has at least 10 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's eligible survivor may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 55, and has at least 10 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with any CalPERS employer is not eligible for this benefit. An eligible survivor means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 3%.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon the following schedule. The employer may choose to “pick-up” these contributions for the employees.

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$0.

The percent contributed above the monthly compensation breakpoint is 0%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, if any, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee's *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member's survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

STATE INDUSTRIAL TIER 1

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of the plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2% at 55** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

<u>Retirement Age</u>	<u>2% at 55 Factor</u>
50	1.100%
51	1.280%
52	1.460%
53	1.640%
54	1.820%
55	2.000%
56	2.064%
57	2.126%
58	2.188%
59	2.250%
60	2.314%
61	2.376%
62	2.438%
63 & Up	2.500%

- The years of service is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The final compensation is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this group may or may not be covered by Social Security. For employees covered by Social Security, the final compensation is offset by \$133.33 (or by one third if the final compensation is less than \$400).
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, and has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes disabled and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. Disabled means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement**Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger

the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance (PRSA)* or simply as *survivor continuance*.

In other words, 25% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which

CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Special Death Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

For employees covered by Social Security, the contribution schedule is as follows:

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$513.

The percent contributed above the monthly compensation breakpoint is 5%.

For employees not covered by Social Security, the contribution schedule is as follows:

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$317.

The percent contributed above the monthly compensation breakpoint is 6%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee's *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member's survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

STATE INDUSTRIAL TIER 2

The following is a summary of the major plan provisions applicable to State Industrial Tier 2 Members. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Tier 2 Members electing Tier 1 benefits

State Industrial Tier 2 members have the right to convert their Tier 2 service to Tier 1 service provided that they make up the shortfall in their accumulated contributions with interest. In this valuation, we have assumed that all State Industrial Tier 2 members will elect to convert their Tier 2 service to Tier 1 service.

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 55 with at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements). Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **1.25% at 65 Tier 2** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

1.25% at 65		1.25% at 65	
Retirement	Tier 2	Retirement	Tier 2
<u>Age</u>	<u>Factor</u>	<u>Age</u>	<u>Factor</u>
50	0.5000%	58	0.9000%
51	0.5500%	59	0.9500%
52	0.6000%	60	1.0000%
53	0.6500%	61	1.0500%
54	0.7000%	62	1.1000%
55	0.7500%	63	1.1500%
56	0.8000%	64	1.2000%
57	0.8500%	65 & Up	1.2500%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this group may or may not be covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 10 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements). Members with 5 years of service before January 1, 1985 are also eligible.

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 55.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 10 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.125% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 29.628 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 65, for members with at least 10 years but not more than 29.628 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement**Eligibility**

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit**Lump Sum Payment**

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger

the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 25% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit**Eligibility**

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 55, and has at least 10 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 55, and has at least 10 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit. Members with 5 years of service before January 1, 1985 are also eligible.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Special Death Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 3%.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon the following schedule. The employer may choose to “pick-up” these contributions for the employees.

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$0.

The percent contributed above the monthly compensation breakpoint is 0%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee's *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member's survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

STATE SAFETY

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of the plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2.5% at 55 Safety** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

2.5% at 55	
Retirement Age	Safety Factor
50	1.700%
51	1.800%
52	1.900%
53	2.000%
54	2.250%
55 & Up	2.500%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this

compensation). The employees in this group are not covered by Social Security. The final compensation is not offset by a dollar amount.

- The Service Retirement benefit is capped at 80% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement

age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance (PRSA)* or simply as *survivor continuance*.

In other words, 50% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 50% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with any CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit**Eligibility**

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Special Death Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon the following schedule. The employer may choose to "pick-up" these contributions for the employees.

The percent contributed below the monthly compensation breakpoint is 0%.
The monthly compensation breakpoint is \$317.
The percent contributed above the monthly compensation breakpoint is 6%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee's *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member's survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

STATE PEACE OFFICERS AND FIREFIGHTERS

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of this plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from either the **3% at 55** or the **3% at 50** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

<u>Retirement Age</u>	<u>3% at 55 Factor</u>	<u>Retirement Age</u>	<u>3% at 50 Factor</u>
50	2.400%	50 & Up	3.000%
51	2.520%		
52	2.640%		
53	2.760%		
54	2.880%		
55 & Up	3.000%		

- Currently, about 99.8% of its active members are subject to the **3% at 50** benefit factor. The rest of its active members (about 0.2%) are subject to the **3% at 55** benefit factor.
- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this group are not covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is capped at 90% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance (PRSA)* or simply as *survivor continuance*.

In other words, 50% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to

unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 50% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Special Death Benefit**Eligibility**

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial

allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

Approximately two thirds of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The monthly compensation breakpoint is \$863.
The percent contributed above the monthly compensation breakpoint is 8%.

Approximately one sixth of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The monthly compensation breakpoint is \$238.
The percent contributed above the monthly compensation breakpoint is 8%.

The remainder of the active population is subject to the following schedule:

The percent contributed below the monthly compensation breakpoint is 0%.
The monthly compensation breakpoint is \$513.
The percent contributed above the monthly compensation breakpoint is 8%.

Refund of Employee Contributions

If the member’s service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee’s *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member’s unmarried children under age 22. A member’s survivor who is eligible for any other pre-retirement death benefit described in the

Retirement Program section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

CALIFORNIA HIGHWAY PATROL

The following is a summary of the major plan provisions used in calculating the liabilities of the plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees is **3% at all ages**, it does not depend on the member's age at retirement.
- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.
- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). In addition, the final compensation used for calculating retirement benefits will be increased according to the following schedule:
 - 8% for members who retire or die on or after July 1, 2004, and prior to July 1, 2008
 - 6% for members who retire or die on or after July 1, 2008, and prior to July 1, 2009
 - 4% for members who retire or die on or after July 1, 2009, and prior to July 1, 2010
 - 2% for members who retire or die on or after July 1, 2010, and prior to July 1, 2011
 - No increase for members who retire or die on or after July 1, 2011

- The employees in this group are not covered by Social Security. The final compensation is not offset by a dollar amount.
- The Service Retirement benefit is capped at 90% of final compensation.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement

age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Industrial (Job-Related) Disability Retirement

Eligibility

An employee is eligible for Industrial Disability Retirement if he or she becomes *disabled* while working, where *disabled* means the member is unable to perform the duties of the job because of a work-related illness or injury which is expected to be permanent or to last indefinitely. A CalPERS member who has left active employment within this group is not eligible for this benefit, except to the extent described in the next paragraph.

Benefit

The Industrial Disability Retirement benefit is a monthly allowance equal to 50% of final compensation. For members who, as a result of a single event, incur serious bodily injury, the benefit provided is equal to the greater of 50% of final compensation, or, three percent of final compensation multiplied by the number of years of service credited to the member, plus an annuity purchased with the accumulated additional contributions, if any. However, if a member is eligible for Service Retirement and if the Service Retirement benefit is more than the Industrial Disability Retirement benefit, the member may choose to receive the larger benefit, plus an annuity purchased with the accumulated additional contributions, if any. For a CalPERS member not actively employed in this group who became disabled while employed by some other CalPERS employer, the benefit is a return or annuitization of the accumulated member contributions with respect to employment in this group.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 50% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance. This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 50% of the allowance, the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 50% of the retirement allowance, which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Group Term Life Insurance

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. This benefit is in addition to other pre-retirement death benefits.

Benefit

The benefit is a lump sum payment of \$5,000 plus an additional amount equal to 50% of the annual compensation earned by the deceased member during the 12 months immediately preceding the member's death. The additional amount shall not be paid if the member is eligible for service retirement or the Alternate Death Benefit.

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary shall be paid only if the member is eligible for service retirement or eligible for the Alternate Death Benefit. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

Alternate Death Benefit

Eligibility

This benefit may be received in lieu of the lump sum Basic Death Benefit if there is a surviving spouse or minor child of the member. The member must have died before reaching the minimum retirement age and must have been credited with at least 20 years of state service.

Benefit

The Alternate Death Benefit is calculated as though the member were the minimum retirement age and elected an optional form of benefit that provided 100% continuance to the member's spouse. If the member did not have a spouse at the time of death, one-half of the formula benefit would be paid to the surviving child. If the benefit is payable to a surviving child, the benefit will be discontinued upon death or the attainment of age 18.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Optional Settlement 2 Death Benefit

Eligibility

An employee's *eligible survivor* may receive the Optional Settlement 2 Death benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the 1957 Survivor benefit.

Benefit

The Optional Settlement 2 Death benefit is a monthly allowance equal to the Service Retirement benefit that the member would have received had the member retired on the date of his or her death and elected Optional Settlement 2. (A retiree who elects Optional Settlement 2 receives an allowance

that has been reduced so that it will continue to be paid after his or her death to a surviving beneficiary.) The allowance is payable as long as the surviving spouse lives. Upon the death of the surviving spouse, the benefit shall be continued to minor children. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

Special Death Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the Special Death benefit if the member dies while actively employed and the death is job-related. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married prior to the onset of the injury or illness that resulted in death. If there is no eligible spouse, an eligible survivor means the member's unmarried children under age 22. An eligible survivor who chooses to receive this benefit will not receive any other death benefit.

Benefit

The Special Death benefit is a monthly allowance equal to 50% of final compensation, and will be increased whenever the compensation paid to active employees is increased but ceasing to increase when the member would have attained age 50. The allowance is payable to the surviving spouse until death, at which time the allowance is continued to any unmarried children under age 22. There is a guarantee that the total amount paid will at least equal the Basic Death Benefit.

If the member's death is the result of an accident or injury caused by external violence or physical force incurred in the performance of the member's duty, and there are *eligible* surviving children (*eligible* means unmarried children under age 22) in addition to an eligible spouse, then an **additional monthly allowance** is paid equal to the following:

- if 1 eligible child: 12.5% of final compensation
- if 2 eligible children: 20.0% of final compensation
- if 3 or more eligible children: 25.0% of final compensation

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon the following schedule. The employer may choose to “pick-up” these contributions for the employees.

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$863.

The percent contributed above the monthly compensation breakpoint is 8%.

Refund of Employee Contributions

If the member’s service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee’s *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member’s survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.

SCHOOLS

The following is a summary of the major plan provisions for the most representative group used in calculating the liabilities of this plan. Many of the statements in this summary are general in nature, and are intended to provide an easily understood summary of the complex Public Employees' Retirement Law. The law itself governs in all situations.

RETIREMENT PROGRAM

Service Retirement

Eligibility

A CalPERS member becomes eligible for Service Retirement upon attainment of age 50 with at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Benefit

The Service Retirement benefit calculated for service earned by this group of employees is a monthly allowance equal to the product of the *benefit factor*, *years of service*, and *final compensation*, where

- The *benefit factor* for this group of employees comes from the **2% at 55** benefit factor table. The factor depends on the member's age at retirement. Listed below are the factors for retirement at whole year ages:

Retirement Age	2% at 55 Factor
50	1.100%
51	1.280%
52	1.460%
53	1.640%
54	1.820%
55	2.000%
56	2.064%
57	2.126%
58	2.188%
59	2.250%
60	2.314%
61	2.376%
62	2.438%
63 & Up	2.500%

- The *years of service* is the amount credited by CalPERS to a member while he or she is employed in this group (or for other periods that are recognized under the employer's contract with CalPERS). For a member who has earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each

employer's contract, and then added together for the total allowance. Any unused sick leave accumulated at the time of retirement will be converted to credited service at the rate of 0.004 years of service for each day of sick leave.

- The *final compensation* is the monthly average of the member's highest 12 consecutive months' full-time equivalent monthly pay (no matter which CalPERS employer paid this compensation). The employees in this plan may or may not be covered by Social Security. For employees with service prior to January 1, 2001 covered by Social Security, the final compensation is offset by \$133.33 (or by one-third if the final compensation is less than \$400).
- The Service Retirement benefit is not capped.

Vested Deferred Retirement

Eligibility for Deferred Status

A CalPERS member becomes eligible for a deferred vested retirement benefit when he or she leaves employment, keeps his or her contribution account balance on deposit with CalPERS, **and** has earned at least 5 years of credited service (total service across all CalPERS employers, and with certain other Retirement Systems with which CalPERS has reciprocity agreements).

Eligibility to Start Receiving Benefits

The CalPERS member becomes eligible to receive the deferred retirement benefit upon satisfying the eligibility requirements for Deferred Status and upon attainment of age 50.

Benefit

The vested deferred retirement benefit is the same as the Service Retirement benefit, where the benefit factor is based on the member's age at allowance commencement. For members who have earned service with multiple CalPERS employers, the benefit from each employer is calculated separately according to each employer's contract, and then added together for the total allowance.

Non-Industrial (Non-Job Related) Disability Retirement

Eligibility

A CalPERS member is eligible for Non-Industrial Disability Retirement if he or she becomes *disabled* and has at least 5 years of credited service (total service across all PERS employers, and with certain other Retirement Systems with which PERS has reciprocity agreements). There is no special age requirement. *Disabled* means the member is unable to perform his or her job because of an illness or injury which is expected to be permanent or to last indefinitely. The illness or injury does not have to be job related. A CalPERS member must be actively working with any CalPERS employer at the time of disability in order to be eligible for this benefit.

Benefit

The Non-Industrial Disability Retirement benefit is a monthly allowance equal to 1.8% of final compensation, multiplied by *service*, which is determined as follows:

- *service* is CalPERS credited service, for members with less than 10 years of service or greater than 18.518 years of service; or
- *service* is CalPERS credited service plus the additional number of years that the member would have worked until age 60, for members with at least 10 years but not more than 18.518 years of service. The maximum benefit in this case is 33 1/3% of Final Compensation.

Members who are eligible for a larger service retirement benefit may choose to receive that benefit in lieu of a disability benefit. Members eligible to retire, and who have attained the normal retirement age determined by their service retirement benefit formula, will receive the same dollar amount for disability retirement as that payable for service retirement. For members who have earned service with multiple CalPERS employers, the benefit attributed to each employer is the total disability allowance multiplied by the ratio of service with a particular employer to the total CalPERS service.

Post-Retirement Death Benefit

Lump Sum Payment

Upon the death of a retiree, a one-time lump sum payment of \$2,000 will be made to the retiree's designated survivor(s), or to the retiree's estate.

Form of Payment for Retirement Allowance

Generally, the retirement allowance is paid to the retiree in the form of an annuity for as long as he or she is alive. The retiree may choose to provide for a portion of his or her allowance to be paid to any designated beneficiary after the retiree's death. CalPERS provides for a variety of such benefit options, which the retiree pays for by taking a reduction in his or her retirement allowance. The larger the amount to be provided to the beneficiary is, and the younger the beneficiary is, the greater the reduction to the retiree's allowance.

For retirement allowances with respect to service earned by employment in this group, 25% of the retirement allowance will automatically be continued to certain statutory beneficiaries upon the death of the retiree, *without* a reduction in the retiree's allowance (50% for service not covered by Social Security). This additional benefit is often referred to as *post retirement survivor allowance* (PRSA) or simply as *survivor continuance*.

In other words, 25% of the allowance (or 50% for service not covered by Social Security), the *continuance portion*, is paid to the retiree for as long as he or she is alive, and that same amount is continued to the retiree's spouse (or if no eligible spouse, to unmarried children until they attain age 18; or, if no eligible children, to a qualifying dependent parent) for the rest of his or her lifetime.

The remaining 75% of the retirement allowance (or 50% for service not covered by Social Security), which may be referred to as the *option portion* of the benefit, is paid to the retiree as an annuity for as long as he or she is alive. Or, the retiree may choose to provide for some of this *option portion* to be paid to **any** designated beneficiary after the retiree's death. CalPERS offers a variety of such benefit options, which the retiree pays for by taking a reduction to the option portion of his or her retirement allowance.

Pre-Retirement Death Benefits

Basic Death Benefit

Eligibility

An employee's beneficiary (or estate) may receive the Basic Death benefit if the member dies while actively employed. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. A member's survivor who is eligible for any other pre-retirement death benefit described below may choose to receive that death benefit instead of this Basic Death benefit.

Benefit

The Basic Death Benefit is a lump sum in the amount of the member's accumulated contributions, where interest is currently credited at 7.75% per year. In addition, a lump sum in the amount of six months' salary is paid. For purposes of this benefit, one month's salary is defined as the member's average monthly full-time rate of compensation during the 12 months preceding death.

1957 Survivor Benefit

Eligibility

An employee's *eligible survivor(s)* may receive the 1957 Survivor benefit if the member dies while actively employed, has attained at least age 50, and has at least 5 years of credited service (total service across all CalPERS employers and with certain other Retirement Systems with which CalPERS has reciprocity agreements). A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death or, if there is no eligible spouse, to the member's unmarried children under age 18. A member's survivor may choose this benefit in lieu of the Basic Death benefit or the Special Death benefit.

Benefit

The 1957 Survivor benefit is a monthly allowance equal to one-half of the unmodified Service Retirement benefit that the member would have been entitled to receive if the member had retired on the date of his or her death. If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death or attainment of age 18, unless the child is disabled. There is a guarantee that the total amount paid will at least equal the Basic Death benefit.

Cost-of-Living Adjustments

Beginning the second calendar year after the year of retirement, retirement and survivor allowances will be annually adjusted on a compound basis by 2%. However, the cumulative adjustment may not be greater than the cumulative change in the Consumer Price Index since the date of retirement.

Purchasing Power Protection Allowance (PPPA)

Retirement and survivor allowances are protected against inflation by PPPA. PPPA benefits are cost-of-living adjustments that are intended to maintain an individual's allowance at 75% of the initial allowance at retirement adjusted for inflation since retirement. The PPPA benefit will be coordinated with other cost-of-living adjustments provided under the plan. The total annual outlay for PPPA is limited to 1.1% of accumulated member contributions. If this amount of member contributions were insufficient to provide for PPPA payments, the 75% target would be proportionately reduced.

Employee Contributions

Each employee contributes toward his or her retirement based upon one of the following schedules. The employer may choose to “pick-up” these contributions for the employees.

The contribution schedule is as follows:

The percent contributed below the monthly compensation breakpoint is 0%.

The monthly compensation breakpoint is \$0.

The percent contributed above the monthly compensation breakpoint is 7%.

Refund of Employee Contributions

If the member's service with the employer ends, and if the member does not satisfy the eligibility conditions for any of the retirement benefits above, the member may elect to receive a refund of his or her employee contributions, which are credited annually with 6% interest.

1959 SURVIVOR BENEFITS PROGRAM

Eligibility

This benefit is available only to employees who are not covered by Social Security. An employee's *eligible survivor(s)* may receive the 1959 Survivor benefit if the member dies while actively employed and the member had elected to pay for coverage under this benefit program. A CalPERS member who is no longer actively employed with **any** CalPERS employer is not eligible for this benefit. An *eligible survivor* means the surviving spouse to whom the member was married at least one year before death and who is either caring for unmarried children under age 22 or is at least 62 years old; or, if there is no eligible spouse, the member's unmarried children under age 22. A member's survivor who is eligible for any other pre-retirement death benefit described in the **Retirement Program** section above will receive the 1959 Survivor benefit in addition to that death benefit, except as described in the paragraphs below.

Benefit

The 5th level 1959 Survivor Benefit, for members who elected this coverage or for whom this coverage was mandatory, is a monthly allowance equal to one of the following, depending upon the set of eligible survivors:

\$1,800 to an eligible spouse with two or more eligible children; or three or more eligible children.

\$1,500 to an eligible spouse with one eligible child; or two eligible children only.

\$ 750 to one eligible child only; or spouse age 60 or older; or dependent parents.

If the benefit is payable to the spouse, the benefit is discontinued upon the death of the spouse. If the benefit is payable to a dependent child, the benefit will be discontinued upon death, marriage or attainment of age 22.

If a member's survivor is receiving the Special Death benefit as described in the **Retirement Program** section above, then the amount of the 1959 Survivor benefit will be reduced by the amount of the Special Death benefit.

Cost-of-Living Adjustment

There is no cost-of-living adjustment to the 1959 Survivor benefit.

Employee Contributions

Each employee contributes \$2.00 per month. These contributions are non-refundable.